UNIVERSITY OF LONDON

UNIVERSITY COLLEGE ANNUAL REPORT 1971-1972

UNIVERSITY COLLEGE
LONDON

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A. TATTERSALL, M.A.

FOREWORD BY THE PROVOST

When Gladstone lay dying, his old university, Oxford, which in 1865 had snubbed him by declining to have him any longer as their Member of Parliament, sent him a message of sympathy. Gladstone roused himself to reply in one last effort and wrote: 'There is no expression of Christian sympathy that I value more than that of the ancient university of Oxford. . . . I served her, perhaps mistakenly, to the best of my ability. My most earnest prayers are hers to the uttermost and to the last'.

If the Prime Minister today were to find himself in that lamentable condition, it is unlikely that such thoughts would be uppermost in his mind. The universities are now pilloried as much as ten years ago they were praised and petted. They are, so we are told, too expensive, too absorbed in research, too remote from the needs of society, too incompetent to teach their students the vocational subjects they ought to be teaching, so that everything from the country's failure to achieve economic growth to the superior ability, eloquence, and ruthlessness of French bureaucrats in the Common Market is laid at their door. Above all, the argument goes, they fail to control their students, who waste the taxpayer's money for three years (a length of time which ought to be slashed) by causing disturbances and organising futile demos.

Whenever one discusses universities with ministers, politicians, or newspaper editors, the first topic—and sometimes almost the only topic—is student demonstrations. No doubt this reflects their post-bags, and no doubt this is why the media report the mildest disturbances even when they are non-events and follow the cumbersome quasi-judicial disciplinary proceedings as if they were murder trials. There is not a jot of evidence to suggest that the quinquennial settlement to universities or the rate of expansion in higher education announced in the White Paper, nor even the level of student grants, was directly affected by these disturbances. The Secretary of State had clearly decided during the summer not to increase grants to compensate for inflation, and the incidents at Stirling University could have played no part in her decision. But how little pressure was she under to come to any other? Such incidents, particularly when they are publicly condoned by the National Union of Students, take the pressure off ministers. The pressure ten years ago to increase the numbers, and improve the lot, of students, e.g. the Hale Report on teaching and its effect on the staff-student ratio, has now sunk to a new low. It would be impossible today to attract the benefactors

or to raise by appeal the millions for student residence that were then raised. Despite the fact that the number of students has doubled, their parents do not bombard ministers and the press to support the case which the National Union of Students and the Vice-Chancellors have been putting for increasing student grants. So far from obtaining by force concessions for students, militancy has brought them into odium and reduced their chance of getting a better deal when they most need it.

And yet the level of students grants is a scandal. They are in fact the sole major item of university expenditure which is unprotected against galloping inflation. The maintenance component of the grant is now £50 below what in justice it should be. Since universities are bound under UGC regulations to make the accounts of halls of residence and refectories balance, a student cannot save on his food or on his rent if he eats or lives in university accommodation. Incensed by the Department's refusal to budge, the NUS has called for nation-wide rent strikes. But the Department is able to rely on the hostility of the public to student claims. It is all too easy to hint that most students come from the better-off families in society and can earn money in the vacations—and to ask when the bars in student unions will show signs of insolvency. Between the cynicism of the Department and the caperings of the NUS the universities are in an impossible position. But for them the moral is clear. At present the Vice-Chancellors are represented only in the first stage of the negotiations on student grants: they are excluded from the final stage when the award is made. The Vice-Chancellors must have a voice in the final stage since they cannot have obligations imposed upon them without any opportunity to put their case. They could then tell the Department during the negotiations that, whereas they had a case for altering the regulations for student union finance, they have none at all for disregarding the cost of living index and fostering a legitimate grievance.

Student disturbances are far rarer than in the universities of other countries because until now student grievances have been minimal. The majority of students are not in fact interested in the 'issues' which are conjured up in union politics: they want to be left in peace to pursue their studies and their own interests in life. This was never better shown than last year in University College. The new line taken in the Union was to advocate a policy of confrontation and the radicalisation of the student body, including the indoctrination of freshers in Introduction Week. By the beginning of the new academic year the College found itself in official dispute with the Union on at

least four issues. During the year vandals painted slogans, scrawled obscenities, and caused hundreds of pounds worth of damage in the Union's premises. Much of the Union's resources and the energy of the activists soon, however, began to be spent in agitating against the Secretary of State's Green Paper on Student Union Finance; and College business and teaching went on their way undisturbed.

The effect on the student body was interesting. The dispute about the financing of halls of residence was settled amicably after a major enquiry had been carried out at top speed and a report issued. The freshers declined to be radicalised. The response in general to this political pressure was to stay away from the Union so that a quorum could rarely be found for any motion; and the disengagement from Union affairs was singularly evident in the low poll in the election of new officers in February. The new President has returned to the old policy of friendly relations with the College instead of confrontation, and has rightly pressed the Union's case on such issues as refectory charges as strongly as ever his predecessors did—and with success. Significantly he has reappointed Senior Treasurers who are so useful in helping the Union manage its finances. In a year which threatened to be difficult, nothing of any lasting significance occurred to impair the admirable relations which have always existed between the student body and the College; indeed a new development to be welcomed is the emergence of a Postgraduate Association which will press the claims of a part of the student body which does not always get its fair share of whatever cake is on offer.

The good relations here are in fact paralleled in the vast majority of all universities. But neither this fact, nor the community work initiated and undertaken by students, makes headlines. The activists, who have so succeeded in alienating public opinion, share a characteristic with some of their elderly critics. They enjoy using the language of self-righteousness and identifying a scapegoat onto which they load the troubles of the world. The elderly do much the same when they fulminate about students. They ought to reflect that the young are imitative and take their models from life, and what model appears more apt to student activists than militant trade unionism? But however many resolutions are passed at National Union of Students conferences that students should be paid a wage, the fact remains that students do not stand in relation to dons and to universities as trade unionists do to management in industry or business. If they did two things would follow: far more stringent regulations concerning hours of work, and the end of student participation in university governance.

From the point of view of students the most important thing about the White Paper on education which the Secretary of State published in December was what was not in it. There was no mention of student loans. Subsequently a report by the House of Commons Committee on Public Expenditure has also specifically come out against loans for undergraduates. This is welcome. Quite apart from the fact that no minister relishes incurring the odium of switching from grants to loans when he knows that it will not be he, but his successor in six years time, who will reap the financial benefit, a loan scheme would be a regressive move of immense advantage to well-to-do parents in the community who could set such loans against their tax liabilities. If loans were introduced they would benefit the very people in society who need financial aid least.

* * *

The White Paper did not conceal from universities what was to be their fate in the next decade. They are being asked again to expand, this time by as much as a third, and to be squeezed when they do so. If you squeeze a balloon while blowing it up, it pops; and though universities are tougher than balloons, the expansion of the seventies is going to be far more difficult than the White Paper envisages, especially for the new universities where the bulk of the intake will have to go.

Universities are being asked to take as many undergraduates as they were told by the UGC two years ago to plan for. The reduction by ten thousand of the planning target to which the UGC were working is to be achieved by cutting postgraduate expansion, and University College will be fortunate if we are allowed to admit as many post-graduates as we did in the last quinquennium. Our primary obligation will be to increase undergraduate numbers, and it is precisely because we will have no margin of manoeuvre financially that it is going to be so difficult. If there are no funds available for increasing, other than in ones or twos, the number of academic staff, it is all that more difficult to devise new courses or modify old ones.

That may well be what we shall need to do if we are to admit as many students as we have been asked to take. There are ominous clouds on the horizon. For two years applications to UCCA have fallen, and this year our own intake has not risen as planned. In the year that Britain joined the European Economic Community ten thousand fewer school-children took modern European languages at O level—which will certainly affect entry to our modern language departments. For some years candidates to the traditional old tough

courses, such as physics and engineering, have not been coming forward in sufficient numbers. This is probably partly due to the considerable expansion of the intake at Imperial College. But it may well be due also to the proliferation of basic science departments in polytechnics and colleges of further education as well as in universities.

The White Paper was right in my judgement to envisage the major expansion taking place in the local authority sector. But it was wrong to remain silent about the proliferation of such degree courses in these institutions which often duplicate in the social, as well as the natural, sciences standard university courses. The White Paper says nothing about the need to limit the number of degree courses and prevent the disappearance of diploma courses in polytechnics. Time and again the universities, while welcoming the development of institutions which offer a different kind of higher education, have implored the Department to exercise some control over their offspring in this respect. Nothing is done. Time and again the universities have requested the Department to publish unit costs in the local authority sector. Nothing is published. Who can blame us for drawing an inference?

The UGC has wisely acknowledged that students vote with their feet and are no longer opting for pure science and technology courses. They have changed the ratio between the humanities and science intake from 45:55 to 47:53. They say that the ratio cannot change further because it is governed by the capacity of university buildings. Capacity does indeed affect our own plans for expansion: there are many humanities departments which, immured in inflexible houses in Gordon Square and elsewhere, do not have the space for additional staff, or large enough lecture rooms into which to cram more students.

The Government hopes to counter the lack of capacity by a simple device. The staff-student ratio is to worsen, so that fewer additional staff need be employed to teach the increased numbers of students. The White Paper suggests that the ratio should be 1:10. In University College this would in effect mean that for every additional member of staff at least fifteen extra students would have to be taken. But the White Paper insists that this should be the ratio for *all* institutions of higher education. This is grotesque. The favourable staff-student ratio in our universities has been justified by the argument that dons not only ought to teach small groups or in tutorials, but that they need time to research. Perhaps it is significant that the White Paper contains not one word about research or its importance. Is the Secretary of State now suggesting that research, and all the

cost in library provision, laboratory space, and scientific equipment which that entails, should now be built into every institution of higher education? The cost would be fantastic and the decision singularly odd at a time when the funds for research in universities are to be cut.

For cut they will be. In the last quinquennium a ten per cent increase in the grant was provided and as a result unit costs rose. They did not rise by ten per cent. Half the increase disappeared because universities were not given full supplementation to account for inflation and because they took more students than they were asked to take. But this quinquennium unit costs are to be cut, and the per capita student cost in the last year of the quinquennium will be only 98 per cent of what is required in terms of the first year. The physical and biological sciences will be particularly hard hit. The grant will be further whittled away as the members of the staff recruited during the post-Robbins expansion move up the incremental scale. Whether or not universities will be able to cut costs and maintain standards depends on the willingness of the Government to pay supplementary grants to cover inflation in full and on time. In the last two years Sir Kenneth Berrill at the UGC fought a brilliant battle to ensure that this should be done and the difference to our finances has been enormous. For the first time a UGC policy for determining supplementary grants appears to have been accepted by the Treasury. But if these grants fail to be paid in full, we will not be able to meet our obligations.

It is all the more galling that the one area in which University College could take more students and decrease unit costs has been declared out of bounds. We are specially equipped to take more postgraduate students, and the most unpopular item in the quinquennial settlement will be the Government's decision to cut back on the proportionate increase of these students. One sometimes wonders whether the Department of Education and Science knows what postgraduate studies are—do they imagine that all postgraduate students are studying for the Ph.D? The country needs Ph.D.s if only because the universities will be expected to provide many of the teachers for the vast expansion in the polytechnics and colleges of further education as well as for the universities. But those who research for the Ph.D. are now a minority among graduate students. A large number are diploma students, particularly in departments of education. To give one example among our own diploma courses: University College has for years offered graduate diplomas in library, archive, and information studies. These courses train librarians and

archivists both for municipal libraries and for industrial concerns which need to employ modern methods of information retrieval, and also overseas students who need to learn methods of dealing with records and information appropriate to the developing countries. The other category of graduate studies is the large number of one-year specialist and technical courses leading to an M.Sc. degree, which only a few years ago the Government was begging universities to set up, as being a more suitable and useful degree than the Ph.D. for those who were not continuing in academic life but wanted advanced training. All these courses are now to suffer. Perhaps one faint hope of bringing home to politicians and civil servants what postgraduate students in fact do is for universities to refuse to make a block return and to divide postgraduates into the three categories described above.

But the central question in higher eduation in our times—how many more and how fast—is still a question. The number of university students before the Robbins Committee was set up was so low that it was right to double the number in a decade. But will the White Paper's forecast for the next decade prove to be inflationary? If the sixties were a period of rapid expansion, the seventies should be more a period of consolidation. When large numbers of staff as well as students are newcomers, the harder it is for universities to retain stability. It is easier to promote new courses but harder to remain a community with consensus. The more scholars there are in a field, the greater the obligations each scholar has to them and to his subject and the less he feels bound by obligations to his institution. The more students, the less (paradoxically) they will want to follow the old curricula since they will no longer regard admission to a university as a privilege but will see it as a right. That is one of the reasons why the curriculum has become modular, an offering of course units, and not the tightly knit set of compulsory subjects it once was. Against these deflationary indications must be set the need for the UGC to provide buildings for the birthrate bulge that will protrude into the universities in the next quinquennium. For the first time there is some doubt whether sufficient students will come forward who are really motivated to take, and are capable of profiting from, the kind of courses which universities offer. The best judges of this will be the dons who are responsible for admissions. Universities have already shown that they are not rigidly wedded to the curricula of the past: they may adapt their courses still further. But it is perfectly possible that the new generation of students may prefer what the polytechnics offer. If they do, the universities should

not overstrain to eliminate the shortfall; and it is to be hoped that we shall hear no nonsense about the deplorable failure of universities to meet their targets.

As if the White Paper were not sobering enough, the Chairman of the UGC met members of the Court and the Collegiate Council before Christmas and told them that London University was now priced out of the market in terms of sites and buildings. The astronomical rise in London site values in recent months had made it exceptionally difficult for the UGC to contemplate buying any further sites for the University, when the total Treasury grant for site purchase in the United Kingdom amounted to only £2 million. Nor could the UGC contemplate meeting other than in exceptional circumstances the increased costs of building construction in London, which are far in advance of those in other parts of the country. It was far cheaper to develop universities not only on green field sites but even in the centre of provincial cities such as Manchester or Cardiff. Student residence could not be subsidised above the going rate for the rest of the country even though these rates bore little relevance to the cost per student place in London. Since London was the centre of the tourist industry, vacation lettings of halls of residence should be exploited to provide working capital, and students who could not find residential places had at their disposal the best communications network of any city.

The gloom spread by this analysis was less Stygian than might have been expected: we had seen the writing on the wall. But for University College the UGC's words mean that if, for example, the bookshop which occupies the north-west corner of the rectangle were to offer to sell its freehold premises, the UGC would no longer, as it has been up till now, be willing to 'look favourably' on purchasing the site. The same goes for half a dozen small but crucial sites on and around the rectangle. If any of these came into the market, we now know that the UGC would be unlikely to purchase them for us.

* * *

Nevertheless, against the grain of all this long-term policy, University College is about to enter another period of major rebuilding which will give us additional space and facilities.

This summer the UGC asked for a meeting to discuss the rationalisation of medical education in London recommended in the Todd Report. Until then it had been proposed to purchase a site west of Gower Street on which would rise buildings to house part of the expanded Faculty of Medical Sciences, which would include the

pre-clinical part of the Royal Free Hospital School of Medicine. They would vacate their present cramped quarters in Hunter Street and together with University College Hospital Medical School would formally become part of the College. At the meeting last July the UGC said that they had formed the conclusion that the cost of this site, the complexity of the ownership of the buildings upon it, and the likelihood that preservationist interests would understandably be concerned to maintain the houses on the west side of Gower Street, had made this plan obsolete.

They asked University College instead to build the extension to the Faculty of Medical Sciences on our own rectangle, and in return offered to provide funds to replace some of our obsolete buildings, such as the warehouse in Foster Court which houses, among other departments, Geography and English, or the space, formerly the home of dray horses, now graced with our Department of Egyptology, which works in disgracefully cramped quarters. To fulfil this plan the UGC offered us £5 million in buildings and a further £2 million for fees and furnishing. Many members of the academic staff were not slow to point out that the deal is highly advantageous to the UGC who are acquiring a site cheaply. But the truth is that in present circumstances the offer presents the only chance in the foreseeable future of improving conditions on the rectangle, parts of which are hideously squalid.

The College at once asked Mr Anthony Cox, who had already advised us on the long-term development of the College, to prepare a feasibility study. This study has already shown that the College could gain by such a scheme in a variety of ways, and during next year we shall choose one of the plans he has put before us and begin the more difficult task of translating a feasibility study into detailed requirements which an architect will need to know before he can design buildings. It is already clear that the scheme will have to start by building in the space that exists at the South Junction between the Central Collegiate Building and Gordon Square. When it is completed, all the huts and excrescences within the rectangle should have been swept away, and some of the older and dingier buildings in the south part of the College will have been demolished. The houses which form part of the western side of the Gordon Square design will, of course, be preserved. But it is hoped that some departments at present bursting out of their existing accommodation there and elsewhere on the rectangle will be rehoused. Nor should the needs of the administrative staff, who so often seem to come at the end of the priority list, be forgotten. With good luck and good

planning it may even be possible to move the Union facilities in the old Seamen's Hospital to premises connected to the Central Collegiate Building.

* * *

This is not the only building project. Another project is now being translated into bricks and mortar. Admittedly late, owing to the building strike, Wates have now moved onto the site to construct the premises for the School of Environmental Studies, half of which is financed by the Foundation which bears their name. The site is on Gordon Street and Endsleigh Gardens directly opposite the Union and next to the Christopher Ingold Chemistry Laboratories. It is hoped that Wates House will be completed in two years' time and that the staff and students of architecture and environmental planning will be at last united in one building. This will free space for moving those settled in huts on the South Junction site: and the UGC are also willing to provide funds, if necessary, to accelerate the erection of University buildings in Woburn Square to take departments from Foster Court when their buildings are being demolished.

Meanwhile an extension to Zoology was completed and a large number of minor jobs to improve conditions were done. We owe a particular debt to Mr Bryett, Mr Ferguson, and the Bursar's department, because all during the year the Bursar was suffering from an illness which finally compelled him to resign after many years of admirable service to the College. He was held in particularly high regard by his academic colleagues—which is all the more remarkable as the Bursarship is a post in which it is all too easy to generate friction, whereas under Mr Swain all was harmony and confidence. He is to be succeeded by Mr Edward Williamson, a qualified architect, who has worked in the UGC and has published articles on the conversion of scientific buildings.

It is indeed exceedingly difficult to build. As soon as a sum is accumulated, or an estimate made, the costs accelerate and the College is left panting behind. For years we have planned a much needed improvement to the College's ninety-five acre sports ground at Shenley, which is one of the finest in the Greater London area. The high standard of its many soccer, rugby, and hockey pitches, cricket squares, and tennis and netball courts, is widely known, and they are used constantly not only by members of the College but also by various outside bodies. What the ground lacks are adequate changing rooms, since all that we have are makeshift wooden huts, built in 1951 and never replaced. This year the College has been able

to make a grant of £35,000 to bring the total funds up to £110,000, yet once again costs have exceeded funds. Nevertheless, we intend to go ahead with our plans in the hope that further money will be forthcoming from sources as yet unknown.

* * *

Another change to our buildings is less welcome. Under the wardenship of Mr Richard Freeman, Bentham Hall has been for twenty years a feature of student life. We are now having to surrender the lease. The premises are a charming string of interconnected houses in a crescent half a mile east of the College, and they house 170 students. The rent has been unchanged since the lease was extended in 1960 and has worked out at about £25 per head per annum. This exceptionally favourable lease could not be renewed on the same terms and, perfectly understandably, the lessors, the Skinners Company, who themselves have to meet vastly increased costs in the fields of education and charity, have put a figure for renewal at six times what we are now paying, which is in no way out of line for such accommodation. For the past seven years we have been anticipating that we would have to vacate Bentham Hall because it does not make economic sense to retain it. We cannot ourselves afford to reconstruct the antiquated interior; the running costs in its present condition are much higher than those of our other Halls and would increase; and to re-equip the kitchen and renew wiring and floor coverings would cost £50,000. Since we do not want to see the savings made by vacation lettings swallowed up in dilapidations and by improvements which would ultimately revert to the landlord, we have decided to surrender the lease a year early and make arrangements to develop other property which will in all probability make up the lost rooms of Bentham Hall, and might indeed leave us with a net gain of fifty places. We are indeed much better placed than most universities in that together with the rooms we are fortunate to get in the intercollegiate halls, every undergraduate from outside London can get one year, and most two years, in collegiate accommodation.

Twenty-three per cent of our students live at home. In London this is not surprising where communications—at any rate underground—are good. If so many students in London and Glasgow live at home it really cannot be held to be an inviolable law of nature that a student has not been able fully to benefit from his time at the university unless he leaves home. Yet that belief is strongly held by the great majority of schoolteachers, parents, dons and by the students themselves. Recently the Committee of Vice-Chancellors

revised the UCCA admission form so as to enable a student to indicate if he were willing to live at home and study at his home university; and they asked universities to give such a student preference where his claims are equal to those of others. This mild measure, which amounts to little more than a pious hope that the constant fall in the proportion of home-based students in universities could be halted, met with strong disapproval from all quarters, particularly in the schools. But universities have got to take into account the fact that the polytechnics are expanding faster and are competing for the same inadequate amount of lodgings. If the increase in residential places in both systems does not keep pace with the expansion, because Government will not provide funds, and if no more lodgings can be found, what else can be done but to ensure that more students live at home? The choice may soon be between getting higher education and living at home or not getting any at all. If the universities cannot alleviate this problem, they may be faced with the introduction of unpopular measures such as a loan element for lodgings in the student grant or a system of zoning such as operates in France.

* * *

The Industrial Relations Act, being what it says—an Act applicable to industry—not surprisingly turns out to be a little difficult to apply in a university context. It may seem otiose for universities to be required to provide their academic staff with a piece of paper which tells them what their working hours and holiday entitlements are. Life, as the Diary exercise showed, is not one long holiday for academic staff, who work a 50½ hour week in a 47 week year.

But we are moving towards greater formality. Unionisation is seeping into academic life. The disparity between the rise in the emoluments of academic staff and other staff has put on their mettle the Association of University Teachers, who now have as their secretary a skilled professional trade unionist, Mr Laurie Sapper. London Allowances now match the rate paid to civil servants, and recent awards are considerably better than the infamous settlement following the Prices and Incomes Board Report of 1968. As a result of a request by the local branch of the AUT we are now considering schemes for negotiating and consultative machinery and are formalising arrangements that once were conducted in an informal manner. Business will take even longer than it does now to conduct and the cost of conducting it will increase, but goodwill and sensible procedures should be achieved, particularly since we have on the College

Committee the advice of a trade unionist and other laymen skilled in establishing and working comparable machinery.

* * *

The University of London stands high in the demonology of preservationists for lack of concern about the environment, and to judge from the state of the College rectangle, the inmates of University College would not appear to care how they live. But a surprising number do care and have rightly been raising their voices against the squalor and dreariness of the unplanned hotch-potch clutter of buildings and huts. As a result a working party has been set up under Mr David Goddard of the Bartlett School and they have made a start by improving the gloomy cavern of the Lower Refectory and making arrangements to hide refuse dumps. It is hoped that they will plant some trees and creepers in the northern part of the rectangle when the building of the new Health Centre and Housman Room extension is completed. It is also possible that the lay-out of the Front Quadrangle, which is always congested, could be replanned so that it would once again be dominated by the Portico and not by cars. The southern part of the College must wait upon the major rebuilding scheme as planned by Mr Cox, and conditions there will get worse before they can get better. But by 1985 the College could once again be a delight to work in.

There is one development which is causing much concern. A new Curator of the College Collections was appointed recently and she argued in an able and scholarly report that our prints and drawings have been so inadequately stored that they have begun to deteriorate alarmingly. Furthermore various statues sited round the College, and some of the precious and elegant Flaxman plasters fixed to the walls in the lower part of the Octagon, have been defaced by minor vandalism or damaged accidentally. They are too vulnerable nowadays, in such an exposed position, and are too inviting a target for the maniac practitioners of the felt-tip pen. Cracks have appeared in the great collection of Flaxmans built into the walls of the Library Octagon.

Several things have been done in response to these warnings. Better storage facilities have been found. The most vulnerable Flaxmans have been removed from walls, and lent, along with the statues of St Michael and Hercules, to the Victoria and Albert Museum. Some of the smaller pieces will be on display in the Provost's room. Immediate first-aid work has been started on the drawings and prints, and the Courtauld Institute has intimated that

they would be willing to house them on permanent loan in their Woburn Square gallery (which is across the street from the College). Certain material would be exhibited in the College as usual. A photographic survey is being started of the Library Flaxmans, to discover whether the building is moving or whether the cracks are the result of bomb damage during the war. Finally, we are seeking support from Foundations for longer-term action.

These were disagreeable decisions to take. No one likes to lose part of the heritage of the College which has delighted generations of staff and students. But none of the decisions is irrevocable and the collections of Flaxmans and prints and drawings are not being dispersed. It is natural to ask whether the College could not build a museum for the collections on the rectangle—and so we might, had we funds or space. But even if we had both, we should still be faced with the problem of security, which paradoxically would be worse than it is now. So long as exhibitions in the College can be held from time to time of its treasures, their removal elsewhere need not be too severe a blow. Nevertheless it is a blow.

January 1973 ANNAN, *Provost*

THE REPORT FOR 1971–72

Building Programme

The erection of the new building for the School of Environmental Studies, on the site of the former Endsleigh Hotel, which the College acquired in 1971, will begin next session. A substantial part of the cost of this building will be met by the munificent benefaction of £450,000 from the Wates Foundation. Flaxman House, which at present houses part of the School of Environmental Studies, was sold at the end of February 1972, and was leased back to the College for a short period as part of the interim arrangements associated with the development of the Endsleigh Hotel site. This sale provided the means by which the University Grants Committee were able to make a grant to cover the cost of the purchase of the Endsleigh Hotel, thus relieving the College of the liquid resources problem encountered in the previous year.

The construction of the new Student Health Centre on the Gower Place frontage, financed by a benefaction from the Wolfson Trust, was near completion at the end of the session, but was held up by the

building strike. It is expected that the move into the new building will take place at the end of 1972.

The new animal house on the roof of the Zoology Building, and the modernisation of laboratories on the first floor, were completed in January 1972. The cost of this work was financed mainly by donations from the Imperial Cancer Research Fund, the Wellcome Trust, and the Max Rayne Foundation.

The Medical Research Council has completed building alterations and the installation of specialist services on the ground floor and in the basement at the south end of Foster Court and in the basement of 4 Malet Place, to provide accommodation for their Unit for Neural Mechanisms of Behaviour, which is based in the Department of Psychology.

Adaptation of parts of the old building of the Department of Chemistry was completed in January 1972. It included the conversion of two lecture theatres with stepped floors into classroom and staff accommodation, and of two large teaching laboratories for use by the Department of Physics and the Computer Centre.

Additional accommodation was made available for the Staff Refectory by the transfer of the College Office from its site adjacent to the South Cloisters to one in the basement leading off the South Junction, and work has started on the construction of an extension to the Housman Room, which, when completed early in 1973, will relieve the present over-crowded conditions in the academic staff common rooms.

The Provost has referred (page 14) to the plans being made to provide new changing rooms for the College's sports ground at Shenley.

Finance

The income of the College for 1971–72 amounted to £8,943,057, an increase of £889,094 over 1970–71. Expenditure in 1971–72 was £8,848,745, inclusive of the cost of research borne by outside grants, which totalled £1,686,040 compared with £1,527,151 in 1970–71. The number of these grants was 450.

Capital grants announced for the year amounted to £404,394, compared with £147,816 for the previous year. Receipts against these and previous capital grants and capital expenditure amounted to £496,476 compared with £336,153 in 1970–71.

Student Numbers

The total student population rose to 5,500 and there was an increase in the number of full-time students from 4,377 to 4,707. The

student load, which is calculated for UGC purposes in terms of full-time equivalent students and takes account of part-time students, intercollegiate exchange, and other commitments, remained fairly static at 4,964.

The number of undergraduate students reached a new record of 3,731 and there was an upward turn in the number of postgraduate students, from 1,707 to 1,769. The number of overseas students continued to increase and stood at 928 as against 914 in 1970–71.

The proportion of full-time undergraduate students living in halls of residence or other accommodation provided by the College or the University rose from 43·8 per cent in 1970–71 to 48·5 per cent and there was a reduction from 34 per cent to 30·7 per cent in the proportion of students living in lodgings.

Technical Staff

An enormous task this year has been the long-delayed 'restructuring' of the Common Grading Scheme for Technical Staff. It has been an interesting and probably fruitful exercise in co-operation: the brunt of it has fallen on a group of academic staff drawn from all the science-based departments, but they have needed the help of technical and administrative staff. So ready and helpful has been the co-operation that the basic task of assessing some four hundred posts on an elaborate factor-plan, and comparing them with kindred posts in other departments, has been completed well ahead of the expected schedule. As a result of the exercise, a number of our staff know far more about the technical needs of our teaching and research than they could have learnt by any other method.

We can also hope that, as a pendant to the restructuring of the Common Grading Scheme, some order and consistency may emerge, at a national level, among the posts just above and just below the CGS which have technical affinities. These 'grey areas' have been the subject of much dispute, and we should be as relieved as anyone if they could be satisfactorily graded in a nation-wide scheme.

Academic Matters

Four new courses, all at postgraduate level, two for a College qualification and two for a University qualification, were introduced in 1971–72. These were the College Diploma and College Certificate in Development Planning, courses aimed at graduates, executives, and civil servants from developing countries, the M.Sc. in Educational Psychology (which replaced the former Diploma), and the Diploma in International Law. The session also saw the end of the part-time

Diploma in Town Planning. New courses projected for 1972–73 include the M.Sc. in Information Science within the School of Library, Archive, and Information Studies, and a branch of the M.Sc. in Economics, termed the Economics of Public Policy. The course for the University Diploma in Library and Information Studies has been discontinued and a course for the College Diploma instituted in its place.

Towards the end of last session arrangements were made for the activities of the Department of Development and Tropical Studies of the Architectural Association School of Architecture to be transferred as a unit to the School of Environmental Studies at the College. Dr O. H. Koenigsberger, who had been Head of the Department, was appointed Director of Studies in Development Planning in the School, and the title of Professor of Development Planning was conferred on him by the University. Generous support for this work in development planning has been given by the Ford Foundation, the Leverhulme Trust Fund, and the Overseas Development Administration.

Last year the College reported the acceptance of a benefaction from IBM for the establishment of a Chair of Computer Science, as part of the arrangements for the development of the teaching of computer science at the College. The Chair has been attached to the Department of Statistics, and this department has now been renamed the 'Department of Statistics and Computer Science'.

Two other changes in the departmental structure have taken place. At the beginning of the session the Departments of Phonetics and General Linguistics were combined to form a single Department of Phonetics and Linguistics, under the Headship of Professor A. C. Gimson, while at the end of the session it was decided that the Department of Comparative Philology should not continue as an independent College department and that its staff should be attached to the Department of Latin.

The Computer Centre has continued to provide facilities for the College and the University. During the year three high speed data links have been installed—from the Graduate School of Business Studies, from Imperial College, and from the College Engineering Building—the link with the Engineering Departments greatly stimulating the use of the computer by undergraduates, as part of their normal course work. A new venture for the Centre was the extensive use of videotape for programming courses: a computer Fortran course has been filmed by the University's Audio-Visual Centre and the tapes are to be distributed commercially by London University Computing Services Limited.

During the session the College has begun to make better provision for Audio-Visual Aids. The appointment of the first staff and the purchase of a central stock of film and television equipment have made it possible to increase the variety and range of the services that can be offered and to meet many of the demands from within the College. Technical help and advice have been given to a number of academic departments, an aspect of the work that is likely to increase, and during the year the first videotape programme for teaching purposes to be produced in the College was made for Dr D. Wilkie, of the Department of Botany and Microbiology, on the subject of microbial genetics. Advice and help on audio-visual matters were also given to the sub-committee on the training of teachers, and to the staff-student sub-committee of the Slade School, which was set up to consider the reorganisation of the School reading room into an information and library service including audio-visual material. The provision of accommodation for a television viewing room will lead to a considerable improvement in arrangements for the replay of video tapes to undergraduate classes.

A list of publications of members of the College departments will be found on pages 40–100. This is an impressive record and no attempt is made here to summarise the research projects on which the departments have been engaged during the session. Many of them have attracted substantial grants from Research Councils and other grant-giving bodies, which are gratefully acknowledged in Appendix XIII.

An Exhibition to mark the Centenary of the Slade School was held in the Diploma Galleries, Burlington House, in November–December 1971. Financial help towards mounting the Exhibition was generously given by the Paul Mellon Foundation and by the Friends of University College, and the President and Council of the Royal Academy made the Exhibition possible by allowing the use of their Diploma Galleries. The Exhibition was composed of works by artists done while they were students at the Slade, together with some works by former professors and outstanding teachers. During the three weeks that the Exhibition was open it was visited by more than three thousand people.

The film, *Greek Papyri: The Rediscovery of the Ancient World*, made last session by the Slade School's Unit for the Study of Film for the Department of Greek, and directed by Mirek Dohnal, was chosen as an official British entry for the Documentary Section of the International Film Festival held in Venice in August–September 1971, where it won a silver medal.

The Schools Conference took place at the College from 19 to 21 April. This was the sixth of these annual conferences and it was certainly as enjoyable and rewarding as any of those of earlier years. The Conference was attended by Heads or their deputies from schools in various parts of the country, and also, as an innovation, by a number of Local Education Authority Careers Officers. In all, seventy-five representatives were present in addition to the many members of the College academic staff who took part. The opportunities of establishing personal links with the representatives from Schools and the Careers Officers who attend these conferences and of presenting to them a first-hand idea of what the College has to offer are greatly valued by the College.

The Foundation Oration for 1972 was delivered by Lord Gardiner in the Collegiate Theatre on 13 March. The subject of his oration was 'Looking Back and Forwards'.

Association of Friends of University College London

During 1971–72 the Friends of University College authorised grants totalling £1,635 in support of the following projects: equipment and furnishings for a bar in the Staff Common Room (£500); piano for the Collegiate Theatre (£200); repair of harpsichord and new tympani for the Music Society (£200); set of ten oars for University College and Hospital Boat Club (£180); six garden seats each for Ramsay Hall and for the Whitcher Place precinct (£200); reconditioned piano for common room in Campbell Hall (£150); maintenance of Film Society's film record of College affairs (£100); stereophonic sound equipment for Ifor Evans Hall (£75); two coffee tables for Administrative and Library Staffs Common Room (£30).

The Association of Friends has thus continued its important role in the life of the College in providing for students and staff those much needed amenities which cannot be supported by funds from public sources. The Association hopes that by increasing its membership and subscriptions it will be able to continue to finance those projects which do so much to enhance the corporate life of the College.

SUPPLEMENT

HONOURS AND DISTINCTIONS

In the New Year Honours in 1972 Sir Peter Medawar, Director of the National Institute for Medical Research, Honorary Fellow of the College and formerly Jodrell Professor of Zoology and Comparative Anatomy, was appointed a Companion of Honour for services to medical research, Professor G. Porter, Visiting Professor to the Department of Chemistry, was created a Knight Bachelor, and the C.B.E. was conferred on Professor R. L. F. Boyd, Professor of Physics at the College, and on R. G. Armstrong, Controller, National Savings Bank, Department for National Savings, and a former student in the Faculty of Engineering.

In the Queen's Birthday Honours Sir Harold Samuel, Honorary Fellow of the College, was created a Life Peer in recognition of his public and charitable services, Lord Goodman, Fellow of the College, was appointed a Companion of Honour for public services, the K.C.M.G. was conferred on A. L. P. Kirwan, Director and Secretary of the Royal Geographical Society and Fellow of the College, and Professor E. H. J. Gombrich, Director of the Warburg Institute, Professor of the History of the Classical Tradition in the University of London and formerly Durning-Lawrence Professor of the History of Art at the College, was created a Knight Bachelor. The C.B.E. was conferred on Professor G. P. Wibberley, Ernest Cook Professor of Countryside Planning at the College, for services to countryside planning, and on Dr E. J. M. Bowlby, Deputy Director of the Tavistock Clinic and a former student in the Faculty of Science.

A number of interesting and important appointments were announced during the session. Appointments of members of the College included those of Sir Bernard Waley-Cohen as Chairman of the Public Works Loan Commissioners, Sir Edward Playfair as Chairman of the Board of Trustees of the National Gallery, Lord Annan as President of the Greater London Arts Association, Professor Eleanor M. Burbidge as Director of the Royal Greenwich Observatory, Lord Goodman as President of the Institute of Jewish Affairs in London, as a director of the Royal Opera House, Covent Garden, and as President of the Theatre Advisory Council, Professor R. E. O. Williams as Director of the Public Health Laboratory Service, Professor Sir George Porter as a Trustee of the British Museum, Emeritus Professor Lord Holford as Director of the Leverhulme Trust Fund, Sir Stewart Duke-Elder as Consultant

Emeritus to the Army, and G. Manners as a member of the South-east Economic Planning Council. Among appointments of former students were those of K. C. Christofas as an Under-Secretary at the Cabinet Office, E. G. Gass as Deputy Under-Secretary of State (Finance) in the Ministry of Defence, E. F. Given as H.M. Ambassador to the Federal Republic of Cameroon, H. G. Lillicrap as Chairman of Cable and Wireless Limited, H. E. Marking as a Deputy-Chairman of the British Airways Board, and Miss June Derrick as a member of the committee of inquiry set up by the Secretary of State for Education and Science to examine the teaching of reading.

Professor R. A. Gregory, Fellow of the College, was appointed and Professor Sir Bernard Katz and Professor Sir Harrie Massey were re-appointed Vice-Presidents of the Royal Society; Lord Rosenheim, Honorary Fellow of the College, was elected to a Fellowship of the Society, as were Dr J. A. B. Gray, formerly Professor of Physiology at the College, Professor A. Dalgarno and Professor R. Penrose, both former Mathematics students, Professor G. V. R. Born, a former student of Biochemistry, and Professor V. Gold, a former Chemistry student. Professor Elizabeth M. Wilkinson, Professor Richard Wollheim, and Professor J. H. Le Patourel, formerly Reader in Medieval History at the College, all became Fellows of the British Academy. Dame Veronica Wedgwood, Honorary Fellow of the College, was elected President of the Society of Authors, the first woman to hold this office, T. A. L. Paton, Fellow of the College, was elected Vice-Chairman of the Council of Engineering Institutions, Professor E. H. Thompson an Honorary Member of the International Society of Photogrammetry, and Professor M. Hamilton, formerly both a student and member of staff in the Department of Psychology, was appointed President of the British Psychological Society. Osbert Lancaster, Fellow of the College, was elected Senior Warden of the Worshipful Company of Carpenters, and Lt-Col. F. J. Griffin, a former student of Librarianship, the first Honorary Life Member of the Society for the Bibliography of Natural History.

The University of London conferred the title of Emeritus Professor of English Language and Literature on Lord Evans of Hungershall, and the University of Southampton conferred the honorary title of Professor of Law on their Vice-Chancellor, L. C. B. Gower. Dame Veronica Wedgwood was elected to an Honorary Fellowship of the London School of Economics and Political Science, and Professor Eleanor M. Burbidge, Fellow of the College, to an Honorary

Fellowship of the Lucy Cavendish Collegiate Society, Cambridge.

Honorary degrees were conferred on members of the College as follows: the D.Sc. of the University of Bath on Sir Sydney Barratt, the D.Sc. of the University of Bristol and of the University of Leicester on Professor Eleanor M. Burbidge, the Fil.Dr. of the University of Uppsala on Professor P. G. Foote, the D.Litt. of the University of Liverpool on Professor R. A. Humphreys, the D.Sc. of the Heriot-Watt University, of the University of Manchester, and of the University of St Andrews on Professor Sir George Porter, the LL.D. of the University of Liverpool on Lord Rosenheim, and the LL.D. of the University of Bristol on Dr L. Rotherham. Honorary degrees conferred on former members of the College included: the LL.D. of the University of Sheffield on Professor O. R. Marshall, the D.Sc. of the University of Aston in Birmingham on Dr L. C. Bateman, and the D.Sc. of the Technion (Israel Institute of Technology, Haifa) on A. Blok.

Professor E. H. S. Burhop was awarded the Lenin Peace Prize for 1971 by the Soviet Peace Committee for his work as President of the World Federation of Scientific Workers, Professor Stephen Spender the Queen's Gold Medal for Poetry for 1971, Professor Sir George Porter the Davy Medal of the Royal Society for 1971, Professor R. M. Walker an honorary medal of the Royal College of Surgeons of England for outstanding services to its educational work, and Dr D. R. Harris the Royal Geographical Society's Back Award for 1972 for contributions to the biogeography of Middle America; G. Grime and I. S. Jones were jointly awarded by the Institution of Mechanical Engineers the Crompton-Lanchester Medal for 1969–70 and the Starley Premium for 1970.

APPOINTMENTS

Sir Bernard Waley-Cohen succeeded Lord Strang as Chairman of the College Committee and Sir Edward Playfair became Vice-Chairman. Mr G. Radice and Mr B. C. G. Whitaker were appointed to membership of the College Committee, Mr H. S. K. Greenlees became a member of the Finance Committee, and in the course of the year Mr J. Wickert joined the Investments Committee as its Chairman.

At the beginning of the session, Professor M. A. Jones came to the Commonwealth Fund Chair of American History from the University of Manchester, where he had been Professor of American History and Institutions, Dr N. A. Mitchison, formerly Head of the Division of Experimental Biology at the National Institute for

Medical Research, to the Jodrell Chair of Zoology and Comparative Anatomy and the Headship of the Department, and Dr P. M. Rattansi, previously Senior Research Fellow at King's College, Cambridge, to the Chair of History and Philosophy of Science and the Headship of the Department. Professor M. A. Screech, Professor of French at the College by conferment of title, took up the Fielden Chair of French Language and Literature and the Headship of the Department of French, and Professor A. C. Gimson became Head of the Department of Phonetics and Linguistics. Members of staff who became Professors by conferment of title were: Dr J. S. Cummins (Spanish), Dr O. H. Koenigsberger (Development Planning), J. Musgrove (Architecture), Dr J. H. Ridd (Chemistry), Dr M. L. Tobe (Chemistry), and D. M. Wilson (Medieval Archaeology). In August 1972, the title of Professor of Naval Architecture was conferred on K. J. Rawson, of the Royal Corps of Naval Constructors, who had joined the Department of Mechanical Engineering under the scheme of collaboration between the Corps and the Department for the development of teaching and research in Ocean Engineering.

Dr D. H. Jenkinson was appointed to the Readership in Pharmacology and, on 1 September 1972, J. D. Sugden came from the Department of Applied Economics, University of Cambridge, to the new Readership in Construction Economics, which was instituted in the School of Environmental Studies with support from the Department of the Environment. The title of Reader was conferred on Dr J. R. F. Arthur (Soil Mechanics), Dr E. D. Brown (International Law), Dr Susan N. Brown (Mathematics), R. H. Elvery (Concrete Technology), Dr E. C. B. Hall-Craggs (Anatomy), Dr A. A. Long (Greek and Latin), and Dr N. Wieder (Jewish Studies).

The following Visiting Professors were appointed during the session: W. J. Bray, Director of Research for the Post Office (Electronic and Electrical Engineering); A. Colquhoun, Architect (Environmental Studies); Dr Otto Edholm, Head of the Division of Human Physiology, National Institute for Medical Research (Environmental Studies); Mrs Ruth Glass, Director of the Centre for Urban Studies and formerly Honorary Research Fellow in the Department of Geography (Geography); Dr G. N. Lance, Chief Scientific Liaison Officer, Australian Scientific Liaison Office, London (Mathematics); Professor N. A. Nielson, University of Odense, Denmark (Scandinavian Studies); Dr B. Þorsteinsson, University of Iceland (Scandinavian Studies—Icelandic); Professor I. G. Sarason, Professor of Psychology, University of Washington (Psychology);

G. S. Solt, 1851 Senior Industrial Fellow (Civil and Municipal Engineering); P. Willmott, Co-Director of the Institute of Community Studies (Environmental Studies).

Other important College appointments included J. D. Leahy as Director of Film Studies in the Slade School of Fine Art, and Dr A. A. Long as editor of *The Bulletin*, in succession to Dr J. P. Barron. M. W. Brown took over from Dr A. W. Barton as Schools Liaison Officer.

There were a number of changes in Faculty appointments: Professor I. R. Christie became Dean and Professor W. R. Mead Vice-Dean of the Faculty of Arts, Professor B. Cheng and Professor M. A. Millner were appointed respectively Dean and Vice-Dean of the Faculty of Laws, and Professor A. L. Cullen and Professor H. Billett respectively Dean and Vice-Dean of the Faculty of Engineering; Professor D. R. Wilkie became Vice-Dean of the Faculty of Medical Sciences, and R. H. F. Austin Sub-Dean of the Faculty of Laws.

During the year announcement was made of the following appointments of members of the academic staff to academic posts outside the College: Dr W. G. Chaloner to the Chair of Botany at Birkbeck College, Dr P. A. Jewell to the Chair of Zoology at Royal Holloway College, and Professor A. P. Willmore to the Chair and Headship of the Department of Space Research in the University of Birmingham.

Appointments of the following former members of the academic staff and former students to academic posts outside the College were also announced: Professor R. W. Russell as Vice-Chancellor of Flinders University of South Australia, Professor P. G. Moore as Deputy Principal of the London Graduate School of Business Studies, G. P. Arden to a Hunterian Professorship of the Royal College of Surgeons, Professor G. V. R. Born to the Sheild Chair of Pharmacology in the University of Cambridge, Professor J. H. Dunning to the Chair of International Investment and Business Studies in the University of Reading, Martin Froy as Professor of Fine Art in the University of Reading, Dr H. J. G. Godin to the Chair of French in the Queen's University of Belfast, Dr C. B. Hindley to the Chair of Child Development at the Institute of Education, Professor A. G. Hines to the Chair of Economics at Birkbeck College, Dr F. R. Stannard as Professor of Physics in the Open University, Dr E. Sunderland to a Professorship in Anthropology in the University of Durham, Dr W. D. Wall to the Chair of Educational Psychology at the Institute of Education, and

Dr H. W. Wardman to a Chair of French in the University of Lancaster. The University of London conferred the title of Professor of Economic Geography on E. M. Rawstron, Queen Mary College, and the title of Professor of Physiological Optics on Dr R. A. Weale, Institute of Ophthalmology. Dr C. A. Parker was appointed a Visiting Professor in the Department of Chemistry at the University of Southampton, and Professor R. W. Revans a Visiting Professor in Management Studies in the University of Salford. W. Ashworth has been designated one of the first six professors at the Polytechnic of Central London. Appointments to Readerships included Dr F. T. Banner (Oceanography), University College of Swansea, Dr M. W. B. Bradbury (Physiology), King's College, London, Dr G. S. Claridge (Psychological Medicine), University of Glasgow, Dr J. M. Faccini (Pathology of Oral Diseases), University College Hospital Medical School, Dr K. J. Gregory (Physical Geography) and Dr R. B. Moodie (Physical-Organic Chemistry), both in the University of Exeter, Dr P. D. G. Thomas (History), University College of Wales, Aberystwyth, Dr J. G. Tillett (Chemistry), University of Essex, and C. Webster (History of Medicine), University of Oxford. The title of Reader was conferred by the University of London on Dr P. J. Casselton (Plant Biochemistry), Birkbeck College, on Dr B. N. Davies (Physiology), St Bartholomew's Hospital Medical College, on Dr K. Ostberg (German Language and Medieval Literature), Bedford College, and on Mrs Eileen M. Whitley, *née* Evans (Phonetics), School of Oriental and African Studies; and by Brunel University on Dr D. H. Young (Statistics and Operational Research).

RETIREMENTS

Professor C. W. Allen was appointed to the newly-created Perren Chair of Astronomy in 1951. Previously he had been the Principal Assistant at the Commonwealth Observatory, Canberra (now, the Mount Stromlo Observatory). His studies at Canberra of the solar chromosphere and corona have greatly influenced present concepts of the high solar atmosphere. These studies also indicated the need for good atomic data and the determination of this has been a major part of his research interest. At University College he began the task of building up a first degree in Astronomy—at that time the only one in England and Wales, though now copied elsewhere. The numbers of undergraduates reading Astronomy have steadily increased. Professor Allen played a leading part in the development of British Astronomy—he was Secretary of the Royal Astronomical Society and Chairman of the Satellite Tracking Group—and at the

same time continued his researches in solar and laboratory astrophysics. Perhaps his greatest service to the astronomical community is his volume of critical astrophysical data, *Astrophysical Quantities*, first published in 1955, and soon to appear in a third edition. Professor Allen brought to the task of compiling this work his characteristic physical insight and provided astrophysics with a treasure-house of numerical information. On his retirement Professor Allen will return to Canberra as an Emeritus Professor of the University of London. His acute insight into the problems of astrophysics will be greatly missed.

Professor W. Schwarz entered the Department of German as a student in 1937, having studied Classics in Germany, and graduated M.A. in 1939. He joined the staff of the Department in 1946, took his Ph.D. in 1949, and in 1955 was appointed Professor of Medieval German at the University of Amsterdam. In 1963 he returned to the College as a Reader, and the title of Professor of German was conferred on him the following year. He became Head of the Department of German in 1968, but relinquished the Headship for health reasons early in 1971. Professor Schwarz's range of interests in the medieval field has been and continues to be very wide indeed, but it is to Humanism and Reformation studies that he has devoted most attention: his work on the theories and use of language in the writings—and especially in the translations—of that period is held in particularly high esteem. A colleague of great scholarly and human integrity, a kind and immensely good-natured man, Werner Schwarz will be missed by many. As an Emeritus Professor of the University and an Honorary Research Fellow he will, however, be continuing in some measure his long association with the Department of German and the College.

Otto Skutsch came to the Chair of Latin in University College in 1951. He had studied in Breslau, Kiel, Berlin, and Göttingen, and left his lexicographical work with the *Thesaurus Linguae Latinae* in Munich for a British academic career which took him from St Andrews via Belfast to Manchester. There he was for some time a colleague of T. B. L. Webster, who came to the Chair of Greek at the College in 1948. Their partnership here lasted seventeen years; it was one of personal friendship between two men with a wide range of complementary qualities, and it will be remembered as a most fruitful period in the development of the College's classical teaching and research. A sustained devotion to fragments of lost literature sometimes seems odd to people who have no problem (or the opposite problem) with the survival of the written word. Otto

Skutsch nailed his colours to the mast with an Inaugural Lecture on the *Annals* of Quintus Ennius; and he continued to work towards the completion of a full commentary on the epic which played so cardinal a role in the formation of Roman poetry. At the same time, a ranging activity in all periods of Latin from its beginnings to the Middle Ages was reflected in a steady stream of critical papers. In College, no matter how busy, he always found time for discussion with colleagues, and his contacts with scholars from overseas strengthened the growing international element in the London classical scene. Successive generations of undergraduates can count for benefit their contact with the severe scholar whose infinite pains extended from his research to his pupils, and with the understanding man whose family of children joined in the student parties which Professor and Mrs Skutsch held at their home. The University has now conferred on him the title of Emeritus Professor. His colleagues' wishes for an active and contented retirement have been well answered by a picture-postcard of a vast American library.

C. A. Biddle retired after twenty-four years' service with the College, first in the Department of Civil and Municipal Engineering, and then in the Department of Photogrammetry and Surveying, which was established in 1961. He was appointed to a Lectureship in 1948, when he joined the College from the Survey of India, in which he was Director of the Southern Circle, Bangalore. In 1960 he became a Senior Lecturer, and he was appointed to the Readership in Surveying in 1967. He will best be remembered as an outstanding teacher to many generations of students. His text-book on Field Astronomy, commissioned by the Ministry of Defence, has become a standard work widely used in the English-speaking world.

Dr N. Wieder, Reader in Jewish Studies, retired on 30 September 1972. After giving teaching assistance in the Department of Hebrew and Jewish Studies from 1966, he was appointed to a Lectureship in 1969, and the title of Reader was conferred on him in 1971. Dr Wieder was a scholar of international repute and a teacher of remarkable vitality. He will be greatly missed in the Department.

Three members of the Administrative Staff, whose service between them totalled almost 120 years, retired at the end of the session.

The retirement of F. H. J. Davidson terminated his long service in the Accounts Department, which he joined in 1924 and continued to serve for forty-eight years. He became Assistant Accountant in 1938, Chief Assistant Accountant in 1958, and Deputy Accountant in 1963. His work brought him into contact with members of all sections of the College staff, and his willingness to help with their

individual problems, whether departmental or personal, gained for him their friendship and respect. By his retirement the College has lost another who has given to it a lifetime of loyal service.

Miss Nancie L. Pank joined the Registrar's Department in 1934, after holding temporary appointments at the College during the previous two years. She was appointed a Deputy Registrar in 1946, and in recent years her work in this capacity has been concerned mainly with student grants and the award of scholarships and prizes. She will be remembered by staff and students alike for her helpfulness and cheerfulness and for the courage with which she overcame pain and discomfort and carried on with her duties.

Miss Winifred a'Brook, Senior Administrative Assistant in the Bursar's Department, retired after thirty years' devoted service, which had extended over a period of continual activity in the development of the College site and buildings. She was appointed in 1942, when the College was in evacuation, to work at Gower Street for the Superintendent of Buildings, and from 1948 she worked in the Bursar's Department, of whose affairs she had a remarkable grasp.

Mention must be made of David Thomas, Typographical Adviser to the College since 1950, who relinquished his appointment at the end of the session. His restyling of the whole range of the College's printing and publications, and his unsparing and detailed attention, over a period of twenty-two years, to every aspect of their production, secured greater efficiency and economy, and gave to College printing a new and elegant design. His scholarly interests informed the aesthetic and technical expertise which he put at our disposal. The College owes him much, not only for his invaluable services as Adviser, but also for the help he gave so readily to individual members of staff who sought his advice. His association with the College is maintained by his honorary appointment in the Department of English Language and Literature.

RESIGNATIONS

Mr Sylvester Gates* resigned from the College Committee at the end of the session. He had given valuable service to the College, not only as a member of the College Committee, which he joined in 1961, but also as a member for ten years of both the Finance

* The College heard with deep regret of the death of Mr Sylvester Gates on 1 November 1972.

Committee and the Investments Committee. The College Committee also lost the services of Sir Frederick Warner, Fellow of the College, who had been a member since 1968 on the nomination of the Old Students' Association of the College. During the year Mr E. M. P. Welman resigned from membership of the Investments Committee, which he had joined in 1963 and served as Chairman since 1970. The College Committee recorded its appreciation of their services to the College.

Professor Louis J. Rydill vacated his Professorship of Naval Architecture in the Department of Mechanical Engineering in August 1972 to return to a senior post in the Ministry of Defence's Ship Department at Bath. The College has much to thank him for. In 1967 he had already been appointed Professor of Naval Architecture in the Royal Naval College, Greenwich, but the Greenwich School was not to last and its Department of Naval Architecture had to find a home elsewhere. The Royal Corps of Naval Constructors (a civilian body, some 200 strong, to which is entrusted the responsibility for the design, modification, and maintenance of H.M. ships) decided to accept an offer from the Department of Mechanical Engineering to give its academic staff and students a new home. The staff joined the Department in a radically new approach to naval architecture teaching in the U.K. Professor Rydill accepted the task of guiding and supervising this change and he succeeded brilliantly. The large group of R.C.N.C. and other naval architecture students is now a vital part of the Department, which in the space of a mere three or four years has established the College as a centre of academic teaching and research in maritime technology.

Professor A. P. Willmore resigned in August 1972 to take up the Chair and the Headship of the Department of Space Research in the University of Birmingham. He was a student at University College in the Department of Physics from 1948 to 1954, and after a period at the Atomic Energy Research Establishment, Harwell, he returned in 1957 to join R. L. F. Boyd in establishing a space research group. He played a leading part in applying techniques developed in the laboratory to the study of the ionosphere, and in using the proportional counter for studies of solar X-rays. He was responsible for much of the U.K. contribution to the ARIEL I International Ionospheric Satellite, which established a highly successful pattern of collaboration with the United States. In 1965 the Mullard Space Science Laboratory was established at Holmbury St Mary for the major part of the space research activities of the

Department of Physics, and Dr Willmore's work there was recognised in 1968 by the conferment of the title of Professor. The title of Reader had been conferred on him in 1964. Recently, Professor Willmore has been responsible for the introduction of extremely powerful mask techniques for the accurate position determination of X-ray sources. He will be greatly missed in the Department, especially by the students, who appreciated his lucid style of teaching.

OBITUARY

We record with regret the death during the year of a number of members and former members of the College. They included six Fellows.

Members of the College were deeply shocked to hear of the death of Professor Sir Ronald Nyholm, at the age of fifty-four, in a motoring accident near Cambridge on 4 December 1971. He came to the College from Sydney in 1947 as an I.C.I. Research Fellow and was appointed to a Lectureship in 1950. In 1952 he returned to Sydney to become Associate Professor of Inorganic Chemistry at the College of Technology, but he was invited back in 1955 to take up the Chair of Chemistry previously held by Henry Terrey. Professor Nyholm led a group of young men in a range of studies in synthetic, structural, and physical inorganic chemistry which extended to include magnetochemistry, vibrational and electronic spectroscopy, and X-ray diffraction. Many of these collaborators are now professors in various parts of the world. In 1963 he succeeded E. D. Hughes as Head of the Department of Chemistry. While maintaining an extremely active research school, he was also Chairman of the Nuffield Committee on the O-Level Chemistry Programme, a member and later Chairman of the Chemistry Grants Committee of the Science Research Council, and a Trustee of the British Museum. He was President of the Chemical Society from 1968 to 1970 and was instrumental in the negotiations that led to the amalgamation with the Faraday Society and the Royal Institute of Chemistry. He was honoured by election to an F.R.S. in 1958, by a knighthood in 1967, and by many other awards, including a number of honorary degrees. He was elected a Fellow of the College in 1959. Ron Nyholm has a chemical memorial of some 270 publications, but his favourite medium of communication was the spoken word. He deflated pomposity with disarming directness and with an anecdote to suit any occasion, and he was able to get things done by reasoned argument and personal charm. By delegating the

day-to-day running of the Department he encouraged his junior colleagues to develop their organisational and administrative talents; he always gave credit for success, but took full responsibility when things went wrong. He maintained a keen interest in history, current affairs, and sport. The College has lost one of its most powerful personalities and the world has lost one of its major international chemical statesmen, who was at the peak of his power and still had many contributions to make.

Other Fellows of the College who died were: Dr J. D. S. Flew, formerly Obstetric and Gynaecological Surgeon at University College Hospital and sometime Dean of University College Hospital Medical School; the Rev. E. O. James, Emeritus Professor of Philosophy of Religion in the University of London and formerly Professor of History and Philosophy of Religion in both the University of London and the University of Leeds; H. J. Page, who had been a Member of Staff of the Food and Agriculture Organisation of the United Nations, Principal of the Imperial College of Tropical Agriculture, Trinidad, Director of the Rubber Research Institute of Malaya, Controller of Agricultural Research, Imperial Chemical Industries Limited, and Chief Chemist at the Rothamsted Experimental Station; Sir Reginald Taylor, formerly Engineer-in-Chief, Crown Agents for Overseas Governments and Administrations; and A. C. Wood, formerly Assistant Keeper of the Public Records and at one time Quain Student in English at the College.

Two Emeritus Professors died during the course of the year. The death of Emeritus Professor Sir Cyril Burt on 10 October 1971 marked the end of an era in British psychology—a period in which psychology emerged as a subject in its own right, signalised by the creation of a Chair of Psychology at University College in 1928, which Burt held from 1932 to 1950. Such a Chair was the outcome of some thirty or more years of labour by men like Sully, McDougall, Spearman, C. S. Myers, and Burt himself—men who were pioneers in the application of psychology to education, vocational guidance, maladjustment, and delinquency. Burt's own experience encompassed all these fields. Work on mental capacities while a student at Oxford, lecturing in Sherrington's department (on physiology as well as psychology), assisting Myers at Cambridge, his appointment in 1913 as educational psychologist to the London County Council (the first post of its kind in the country), all contributed to his own development as a psychologist. His recognised mathematical ability together with his rich empirically based research led to distinguished contributions in the field of mental inheritance, to his theory of the

hierarchical structure of mental capacities, and to the publication of his volumes on *The Backward Child* and *The Young Delinquent*, landmarks in these fields. The fruits of this unusually wide background were shown in his department. He established the first university training for educational psychologists. He gave outstanding lecture courses and his postgraduate students, drawn from many countries, reaped the benefit of his long and varied experience. He was an Honorary Fellow of Jesus College, Oxford, and was awarded honorary degrees by Aberdeen and Reading. He was a Fellow of the British Academy and was knighted in 1946 for his services to psychology. Up to the time of his death he had been writing a book, soon to be published, on the subject of gifted children.

Emeritus Professor L. S. Penrose, who died on 12 May 1972 at the age of seventy-three, held the Galton Chair, first of Eugenics and later of Human Genetics, from 1945 to 1965. He succeeded Professor J. B. S. Haldane as Head of the Department of Eugenics, Biometry and Genetics in 1957. He was a distinguished authority on human genetics, and made major contributions to many different branches of the subject, but particularly in the area of mental subnormality. The influence of his work on the development of the science of human genetics over a period of some forty years was immense, and his international stature was recognised by the many honours and awards he received from universities and foundations both in Europe and America. On his retirement from the Galton Chair he became Director of the Kennedy-Galton Centre at Harperbury Hospital, St Albans, where he carried on an active research programme till the very end.

The College lost by death five other members of its academic staff.

The sudden death of Professor Mark Guter on 12 July 1972 came as a great shock to his friends in the College. He graduated in chemistry from Imperial College in 1937 and subsequently obtained a Ph.D. under Professor Newitt. He joined Imperial Chemical Industries in 1941, was for a short period a Lecturer at the University of Leeds, and later worked with the gas separation research group of British Oxygen Company. In 1952 he joined Constructors John Brown Limited as its chief chemical engineer, became a director in 1963, and managing director of CJB (Projects) Limited in 1968. In May 1971 he resigned to take up a Chair of Chemical Engineering at the College, a Chair largely supported by industry and specially created for him. It was his lifelong ambition to teach. His great knowledge of the chemical industry and its technology (he was a member of the London Chamber of Commerce Trade Mission to

China in April 1972), and an intense interest in young people (he was Honorary Secretary of the Bernhard Baron St George's Jewish Settlement) combined to give him unique qualifications for this.

The Department of Laws sustained a severe loss by the death, at the age of forty-nine, of Geoffrey de N. Clark. He joined the Department in 1964 from practice as a solicitor. In his short academic career he established a reputation as an authority on Labour Law, in which field he undertook a number of important research projects including a valuable comparative study of dismissal procedures for the Department of Employment. He also played a cardinal role in ensuring the success of the Industrial Law Society. For some years he had been working, in conjunction with Professor W. R. Cornish of the London School of Economics, on a book dealing with all the major socio-legal aspects of the nineteenth century, which when published will undoubtedly constitute an important contribution to scholarship. He was also an enthusiastic and successful teacher and will be sadly missed in the Department.

Michael G. Walker, also of the Department of Laws, died in August 1972. He had joined the Department as a Lecturer at the beginning of the session, having been for some years a practitioner at the Bar and a lecturer in law and tutor at the College of Law and the Council of Legal Education. He was joint author of a well-established textbook on the English Legal System and his special interest was in criminal law and criminology, to the teaching of which he was making a valuable contribution in the Department.

The Chemistry Department suffered another tragic loss in the death of Dr A. Wassermann, who was killed in the air disaster over Belgium on 2 October 1971. He had been associated with the Department almost continuously since 1933, when he came to this country from Germany, and after his retirement as Reader in Chemistry in 1969 he had continued up to the time of his death his research work as an honorary member of the staff. An appreciation of his services to the College, which appeared in the Report for 1968–69, referred to the rare distinction of the conferment on him by the West German government in 1957 of the honorary title of Professor Extraordinary.

Dr M. I. Satinoff, an honorary member of the staff of the Sub-Department of History of Medicine since 1970, died on 23 June 1972.

We have to report the death of a number of other former members of the academic staff.

Sir Gavin de Beer, who left the College in 1950 to take up the

Directorship of the British Museum (Natural History), died on 21 June 1972. He came from Oxford to the Readership in Embryology at the College in 1938 and the title of Professor of Embryology was conferred on him in 1945. He had a distinguished war record and later received numerous honours and awards, both in this country and abroad. His wide interests and immense knowledge were reflected in the range of his publications. In the College he will be remembered as a stimulating colleague in the difficult years that immediately followed the second world war.

Professor R. Wittkower was formerly Durning-Lawrence Professor of the History of Art. He came to the College in 1949 from the Warburg Institute, and he continued to hold a part-time appointment at the Institute during his tenure of the Durning-Lawrence Chair. He established in the Slade School a relationship between the teaching of the history of art and the practice of painting and sculpture of a peculiarly vital nature, and his loss was keenly felt when in 1956 he left to become Professor of Art History in Columbia University. His death, on 11 October 1971, deprived art history of a great scholar and a great teacher.

T. L. Wren, who died on 14 July 1972, held the Readership in Geometry for thirty-five years from 1919, and over that long period rendered valuable and devoted service to the Department of Mathematics, the College, and the University. He was a member of the Professorial Board for thirty years, and he served for a time as chairman of the University Board of Studies in Mathematics and as a member of the Council and Vice-President of the London Mathematical Society. During the war he bore a large degree of the responsibility for the running of the Department while it was in evacuation at Bangor. He had an unbounded and infectious enthusiasm for his subject, and will be remembered with respect and affection by colleagues and students alike.

Other former members of the staff who died were Dr W. Bonser, member of the Library staff from 1905 to 1928, Sub-Librarian from 1922, and a former student of the College, who was Librarian of the University of Birmingham from 1929 to 1952, and the last survivor of a group of distinguished librarians who served under R. W, Chambers, then Librarian of the College and later Quain Professor of English Language and Literature; Dr Margaret C. Brough (*née* Steen), a former student in the Faculty of Science and from 1930 to 1934 a member of staff in the Department of Zoology and Comparative Anatomy; Dr R. K. Cannan, member of staff, first in the Department of Physiology and later in the Department of Physiology

and Biochemistry, from 1919 to 1930, who was Professor of Chemistry in New York University from 1930 to 1952 and Chairman of the Division of Medical Science, National Research Council (U.S.A.) from 1953 to 1967; Dr L. J. Chubb, a student of the College from 1919 to 1923, member of staff in the Department of Geology from 1925 to 1950, and acting Head of the Department from 1939 to 1946, who afterwards held appointments with the Geological Survey Department, Jamaica; Professor W. G. Friedmann, Professor of International Law in Columbia University, who had been a student of the College from 1934 to 1936, a member of staff in the Department of Laws from 1938 to 1947, and Reader in Jurisprudence in 1946–47; and R. F. Vollans, a part-time Lecturer in the School of Librarianship and Archives from 1951 to 1966.

Early in 1972 news was received of the death of A. S. Holness, a student in the Faculty of Arts from 1901 to 1903, who gave valuable service to the College during the period from 1946 to 1955 as a member of the College Committee, the Finance Committee, and the Managing Committee, and a number of other standing committees; and of G. M. Gathorne-Hardy, who had been a member of the Committee for the Promotion of Scandinavian Studies since 1944 and its Chairman during the period 1944 to 1966.

In the course of the year the College heard with regret of the death of many of its former students. Among them were Charles Cundall, landscape and portrait painter; Mrs Natalie Duddington (*née* Ertel), translator of Russian works; L. P. Ellicott, formerly Chief Housing and Planning Inspector of the Ministry of Housing and Local Government; Roger Furse, a leading designer in the theatre and cinema; Neville Lewis, portrait painter; Bernard T. Ninnes, seascape and landscape painter; Mr Justice S. C. Roy, a judge of the Supreme Court of India; T. C. Williams, Chief Constable of Sussex; and Sir Joseph Wiseham, former Chief Justice of the Supreme Court in The Gambia.

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APPENDIX I

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S. P. Datta, B.SC., M.B., B.S., Professor of Medical Biochemistry†

A. G. Davies, D.SC., F.R.I.C., Professor of Chemistry

D. E. N. Davies, D.SC., C.ENG., F.I.E.E., M.I.E.R.E., Professor of Electrical Engineering

A. M. J. Davis, M.A., PH.D., Lecturer in Mathematics*

D. G. Davis, PH.D., Senior Lecturer in Physics*

G. D. Dawson, M.SC., M.B., CH.B., Professor of Physiology

D. T. Donovan, D.SC., Yates-Goldsmid Professor of Geology

M. Mary Douglas, M.A., D.PHIL., Professor of Social Anthropology

G. C. Drew, M.A., Professor of Psychology

M. J. Evans, B.A., PH.D., Lecturer in Anatomy and Embryology*

L. Few, PH.D., Senior Lecturer in Mathematics*

P. G. Foote, M.A., FIL.DR., Professor of Old Scandinavian

L. Fowden, PH.D., F.R.S., Professor of Plant Chemistry†

J. W. Fox, PH.D., F.INST.P., Senior Lecturer in Physics*

R. B. Freeman, M.B.E., M.A., Reader in Taxonomy*

R. A. French, M.A., PH.D., Lecturer in Geography (Eastern Europe)*

D. B. Fry, PH.D., Professor of Experimental Phonetics

A. C. Gimson, B.A., Professor of Phonetics

Frieda Goldman-Eisler, DR.PHIL., Professor of Psycholinguistics

E. G. Gray, B.SC., PH.D., Professor of Anatomy (Cytology)

A. L. Greenbaum, PH.D., D.SC., Professor of Biochemistry

M. F. Gretton, B.A., Lecturer in Greek and Latin*

G. V. Groves, M.A., PH.D., Professor of Physics

H. Grüneberg, PH.D., M.D., D.SC., F.R.S., Professor of Genetics

M. Guter, PH.D., A.R.C.S., C.ENG., F.I.CHEM.E., Professor of Chemical Engineering§

J. R. Hale, M.A., F.S.A., Professor of Italian

E. W. Handley, M.A., F.B.A., Professor of Greek

H. Harris, M.A., M.D., F.R.S., Galton Professor of Human Genetics

N. B. Harte, B.SC.(ECON.), Lecturer in History*

F. F. Heymann, B.SC.(ENG.), PH.D., Professor of Physics

Peggie M. Hobson, PH.D., Lecturer in Geography*

D. C. Holland, M.A., Professor of English Law

R. G. Hopkinson, B.SC.(ENG.), PH.D., C.ENG., HON.F.R.I.B.A., F.I.E.E., F.R.P.S., F.I.E.S., Haden-Pilkington Professor of Environmental Design and Engineering

J. Hurstfield, D.LIT., Astor Professor of English History†

A. F. Huxley, M.A., D.SC., M.D., F.R.S., Professor of Physiology and Royal Society Research Professor

E. R. H. Ivamy, LL.D., Professor of Law†

K. J. Ives, D.SC.(ENG.), PH.D., C.ENG., M.I.C.E., M.A.S.C.E., Professor of Public Health Engineering

*See footnote on p. 102. †Fellow of the College. §Died 12 July 1972.

D. W. James, M.B., B.S., M.R.C.S., L.R.C.P., Professor of Anatomy
R. E. Jennings, PH.D., Reader in Physics*
B. R. Jewell, PH.D., M.B., B.S., Reader in Experimental Physiology*
D. W. J. Johnson, B.A., B.LITT., Professor of French History
J. H. Johnson, M.A., PH.D., Reader in Geography*
M. D. Johnson, D.SC., F.R.I.C., Lecturer in Chemistry*
M. A. Jones, M.A., D.PHIL., Commonwealth Fund Professor of American History
Sheila Heywood Jones, M.A., PH.D., Lecturer in Psychology*
Shirley E. Jones, PH.D., Lecturer in French*
H. Kalmus, M.D., D.SC., Professor of Biology
Sir Bernard Katz, M.D., PH.D., D.SC., F.R.C.P., F.R.S., Professor of Biophysics†
K. O. Kemp, B.SC.(ENG.), PH.D., C.ENG., M.I.C.E., M.I.STRUCT.E., Chadwick Professor of Civil Engineering
K. A. Kermack, PH.D., Reader in Vertebrate Palaeontology*
J. F. Kermode, M.A., F.R.S.L., Lord Northcliffe Professor of Modern English Literature
O. H. G. Koenigsberger, D.ENG., DIP.ENG., A.M.R.T.P.I., Professor of Development Planning
T. H. Lambert, B.SC.(ENG.), PH.D., HON. R.C.N.C., C.ENG., M.I.MECH.E., Professor of Mechanical Engineering
D. R. Laurence, M.D., F.R.C.P., Professor of Pharmacology and Therapeutics
Anna L. M. Lepschy, M.A., B.LITT., Lecturer in Italian*
D. Lewis, D.SC., F.R.S., Quain Professor of Botany
N. Lichfield, B.SC., PH.D., C.ENG., P.P.R.T.P.I., F.R.I.C.S., M.I.MUN.E., Professor of the Economics of Environmental Planning
D. V. Lindley, M.A., Professor of Statistics
The Right Hon. Lord Llewelyn-Davies, M.A., F.R.I.B.A., M.R.T.P.I., Professor of Urban Planning
The Right Hon. Lord Lloyd, M.A., LL.D., Quain Professor of Jurisprudence†
A. A. Long, B.A., PH.D., Reader in Greek and Latin*
J. Lynch, M.A., PH.D., Professor of Latin American History
A. Maccoll, PH.D., D.SC., F.R.I.C., Professor of Chemistry
T. D. McFarland, M.A., Lecturer in German*
D. J. MacLeod, B.A., PH.D., Lecturer in History*
D. McNally, M.SC., PH.D., Senior Lecturer in Astronomy*
Sir Harrie Massey, D.SC., PH.D., LL.D., F.R.S., Quain Professor of Physics, *Vice-Provost*
A. P. Mathias, PH.D., Professor of Biochemistry
W. R. Mead, D.SC.(ECON.), PH.D., F.D., Professor of Geography
R. Miledi, M.D., F.R.S., Professor of Biophysics
D. J. Millen, PH.D., D.SC., Professor of Chemistry
M. A. Millner, B.A., LL.D., B.C.L., Professor of Law
N. A. Mitchison, D.PHIL., F.R.S., Jodrell Professor of Zoology and Comparative Anatomy
A. D. Momigliano, M.A., D.LITT., F.B.A., Professor of Ancient History
J. L. Mongar, PH.D., Professor of Pharmacology

*See footnote on p. 102. †Fellow of the College.

J. W. Mullin, PH.D., D.SC., C.ENG., F.I.CHEM.E., F.R.I.C., Professor of Chemical Engineering

S. A. F. Murrell, M.A., PH.D., Lecturer in Geology*

J. Musgrove, B.ARCH., A.R.I.B.A., Professor of Architecture

Sir Ronald Nyholm, D.SC., SC.D., F.R.I.C., F.R.S., Professor of Chemistry†§

J. E. Parkin, PH.D., Lecturer in Chemistry*

A. G. Parkinson, M.SC., PH.D., D.I.C., Lecturer in Mechanical Engineering*

E. A. Power, D.SC., PH.D., Professor of Mathematics

D. G. Powles, LL.M., Lecturer in Laws*

Randolph Quirk, M.A., PH.D., D.LIT., Quain Professor of English Language and Literature†

B. R. Rabin, M.SC., PH.D., Professor of Biochemistry

P. M. Rattansi, M.A., PH.D., Professor of History and Philosophy of Science

K. J. Rawson, R.C.N.C., C.ENG., F.R.I.N.A., Professor of Naval Architecture

J. H. Ridd, PH.D., D.SC., Professor of Chemistry

T. P. Roberts, M.A., Lecturer in English Language and Literature*

D. J. Robinson, PH.D., Lecturer in Geography (Latin America)*

C. A. Rogers, D.SC., F.R.S., Astor Professor of Mathematics†

R. J. Rowbury, M.A., D.PHIL., Lecturer in Botany and Microbiology*

P. N. Rowe, B.SC.(TECH.), PH.D., D.SC.(ENG.), C.ENG., F.I.CHEM.E., D.I.C., Ramsay Memorial Professor of Chemical Engineering

E. C. Ryder, M.A., LL.B., Professor of English Law

L. J. Rydill, O.B.E., R.C.N.C., C.ENG., F.R.I.N.A., Professor of Naval Architecture (to 31 July 1972)

P. A. Samet, PH.D., F.B.C.S., Professor of Computer Science

E. H. Scamell, LL.M., Professor of English Law

H. O. Schild, M.D., PH.D., D.SC., F.R.S., Professor of Pharmacology

W. Schwarz, M.A., PH.D., Professor of German

G. Schwarzenberger, PH.D., DR.JUR., Professor of International Law

J. W. Scott, B.A., A.L.A., Librarian

M. A. Screech, D.LITT., Fielden Professor of French Language and Literature

M. J. Seaton, PH.D., F.R.S., Professor of Physics†

R. M. Simmons, PH.D., Lecturer in Physiology*

O. Skutsch, DR.PHIL., Professor of Latin

R. J. Smeed, C.B.E., PH.D., Professor of Traffic Studies

A. J. Smith, B.ARCH., DIP.L.D., M.U.P., A.R.I.B.A., A.I.L.A., Lecturer in Environmental Studies*

C. A. B. Smith, M.A., PH.D., Weldon Professor of Biometry

H. S. Smith, M.A., Edwards Professor of Egyptology

M. G. Smith, PH.D., Professor of Anthropology

F. Sondheimer, PH.D., F.R.S., Professor of Chemistry and Royal Society Research Professor

Stephen Spender, C.B.E., D.LITT., Professor of English

J. Spraos, M.A., Professor of Political Economy

R. Staveley, B.A., F.L.A., Senior Lecturer in Library, Archive, and Information Studies*

*See footnote on p. 102. †Fellow of the College. §Died 4 December 1971.

S. Stein, PH.D., Professor of Hebrew
Hannah Steinberg, PH.D., Professor of Psychopharmacology
K. Stewartson, M.A., PH.D., F.R.S., Goldsmid Professor of Mathematics
M. Stone, PH.D., Professor of Probability and Statistics
K. W. Swart, LITT.D.(LEIDEN), Professor of Dutch History and Institutions
J. A. C. Thomas, M.A., LL.B., Professor of Roman Law
E. H. Thompson, O.B.E., M.A., SC.D., F.R.I.C.S., Professor of Photogrammetry and Surveying
M. L. Tobe, PH.D., D.SC., Professor of Chemistry
William Townsend, Professor of Fine Art†
Mary R. Truter, PH.D., D.SC., Professor of Chemistry
D. A. Turin, DIPL.ARCH., S.C.A., F.I.O.B., London Master Builders Professor of Building
E. G. Turner, M.A., DR.PHIL.ET LETTRES, F.B.A., Professor of Papyrology
N. R. N. Tyacke, M.A., D.PHIL., Lecturer in History*
V. P. Underwood, PH.D., D.ÈS L., Professor of French
C. A. Vernon, D.SC., Professor of Chemistry
A. C. Walker, M.SC., PH.D., C.ENG., A.F.R.AE.S., A.R.C.S.T., M.I.MECH.E., Lecturer in Civil and Municipal Engineering*
P. D. Wall, M.A., D.M., Professor of Anatomy
G. L. Watson, M.A., PH.D., D.SC., Professor of Mathematics
N. F. Watson, B.ARCH., A.R.I.B.A., Bartlett Professor of Architecture
K. E. Webster, B.SC., PH.D., M.B., B.S., Senior Lecturer in Anatomy and Embryology*
R. A. Webster, PH.D., Senior Lecturer in Pharmacology*
D. J. B. White, PH.D., Senior Lecturer in Botany and Microbiology*
J. E. C. T. White, M.A., PH.D., Durning-Lawrence Professor of the History of Art
G. P. Wibberley, C.B.E., M.S., PH.D., Ernest Cook Professor of Countryside Planning
D. R. Wilkie, M.D., M.B., B.S., F.R.C.P., F.R.S., Jodrell Professor of Physiology†
Elizabeth M. Wilkinson, PH.D., LL.D., D.LITT., F.B.A., Professor of German
A. P. Willmore, PH.D., Professor of Physics (to 31 August 1972)
D. M. Wilson, M.A., F.S.A., Professor of Medieval Archaeology
Richard Wollheim, M.A., F.B.A., Grote Professor of Philosophy of Mind and Logic
J. Z. Young, M.A., D.SC., F.R.S., Professor of Anatomy

ASSESSORS

EX OFFICIO—The Sub-Deans of the Faculties:

Arts: C. J. Holdsworth, M.A., PH.D.
Laws: R. H. F. Austin, B.A., LL.M.
Science: C. Dodd, PH.D.
Engineering: H. Marriott, B.ENG., B.SC.(ECON.), C.ENG., F.I.E.E.
Medical Sciences: Pauline M. Meadow, M.A., PH.D.
Environmental Studies: R. J. Fisher, A.R.I.B.A.

ELECTED BY NON-PROFESSORIAL STAFF

A. J. Layton, PH.D.
A. F. D. Scott, B.SC.

*See footnote on p. 102. †Fellow of the College.

APPENDIX III

HONORARY FELLOW AND FELLOWS

The following elections were made in 1972:

HONORARY FELLOW

Mr Ronald Wallace Wates, J.P., Chairman of Wates Limited and Chairman of The Wates Foundation.

FELLOWS

Mr (Anthony) Colin Bruce Chapman, C.B.E., Chairman of Group Lotus Cars Company Limited.

Dr Leonard Eleazer Glynn, Honorary Consultant Pathologist, North-West Metropolitan Regional Hospital Board; member of Scientific Staff, Medical Research Council; Director of Pathology, Canadian Red Cross Memorial Hospital, Taplow.

Dr Frank Hartley, C.B.E., Dean of the School of Pharmacy.

Professor George Joseph Kane, F.B.A., Professor of English Language and Medieval Literature, King's College, London.

Dr Frederick Edward McWilliam, C.B.E., Sculptor; formerly member of Art Panel, Arts Council of Great Britain; sometime member of staff, Slade School of Fine Art, University College London.

Sir Louis Nwachukwu Mbanefo, Chairman of the Anglican Consultative Council; formerly Chief Justice of Eastern Region of Nigeria.

Mr Raymond Charles Mildner, Research Scientist, Dow Chemical Company Limited in Midland, Michigan.

Mr Denis Eric Rooke, C.B.E., Deputy Chairman of The Gas Council.

Professor Michael John Seaton, F.R.S., Professor of Physics, University College London.

Professor Douglas Robert Wilkie, F.R.S., Jodrell Professor of Physiology, and Head of the Department of Physiology, University College London.

APPENDIX IV

PRINCIPAL CHANGES IN THE ACADEMIC STAFF

FACULTY OF ARTS

COMPARATIVE PHILOLOGY

Resignation: Mrs Nadia C. MacGregor-Fairlie, D.ÈS L., D.E.S. (Part-time Senior Lecturer).

ENGLISH LANGUAGE AND LITERATURE

Appointment: J. A. Sutherland, M.A. (Lecturer), formerly Lecturer, University of Edinburgh.

Resignation: A. P. G. Ruthven, B.A., A.M. (Lecturer), to ministerial appointment in H.M. Government.

FINE ARTS

Appointments: J. D. Leahy, M.A. (Senior Lecturer and Director of Film Studies), formerly Instructor in Film, Northwestern University, Illinois.
H. R. Shark, B.S., M.A. (Part-time Lecturer), from University of New Mexico, Albuquerque.

FRENCH

Resignation: Mrs Ruth H. Webb, B.A. (Lecturer).

GERMAN

Retirement: W. Schwarz, M.A., PH.D. (Professor of German); to be Honorary Research Fellow.

GREEK

Appointments: J. T. Hooker, B.A. (Lecturer), formerly Temporary Lecturer in Department.
N. M. Horsfall, M.A., D.PHIL. (Lecturer), from University of Oxford.

Resignation: A. B. E. Hood, M.A., B.PHIL. (Lecturer), to Lectureship, University of Edinburgh.

HEBREW AND JEWISH STUDIES

Retirement: N. Wieder, PH.D. (Reader in Jewish Studies).

HISTORY

Appointment: M. A. Jones, M.A., D.PHIL. (Commonwealth Fund Professor of American History), formerly Professor of American History and Institutions in the University of Manchester.

Resignation: D. J. MacLeod, B.A., PH.D. (Lecturer), to University of Oxford.

HISTORY OF ART

Appointment: Mrs Mary D. Lightbown, B.A. (Curator of the College Collection), formerly held British Academy Wates Foundation Visiting Fellowship.

LATIN

Appointments: J. T. Hooker, B.A. (Lecturer), formerly Temporary Lecturer in Department.
N. M. Horsfall, M.A., D.PHIL. (Lecturer), from University of Oxford.

Retirement: O. Skutsch, DR. PHIL. (Professor of Latin).

Resignation: A. B. E. Hood, M.A., B.PHIL. (Lecturer), to Lectureship, University of Edinburgh.

POLITICAL ECONOMY

Appointments: S. G. B. Henry, M.SC.(ECON.) (Lecturer), formerly Economic Adviser, H.M. Treasury.
J. Szroeter, B.SC.(ECON.) (Lecturer), from London School of Economics and Political Science.

FACULTY OF LAWS

LAWS

Appointments: J. D. R. Adams, LL.B. (Lecturer), formerly Lecturer, University of Newcastle upon Tyne.
A. J. Oakley, M.A., LL.B. (Lecturer), from University of Cambridge.
M. G. Walker, M.A., LL.B. (Lecturer), from the College of Law

Deaths: G. de N. Clark, B.A., LL.B. (Lecturer).
M. G. Walker, M.A., LL.B. (Lecturer).

FACULTY OF SCIENCE

ASTRONOMY

Retirement: C. W. Allen, D.SC. (Perren Professor of Astronomy and Director of the Observatory).

BOTANY AND MICROBIOLOGY

Resignation: W. G. Chaloner, PH.D. (Reader in Botany), to Chair of Botany, Birkbeck College.

CHEMISTRY

Deaths: Sir Ronald Nyholm, D.SC., SC.D., F.R.I.C., F.R.S. (Professor of Chemistry).
A. Wassermann, D.SC., PH.D. (Honorary Research Fellow).

HISTORY AND PHILOSOPHY OF SCIENCE

Appointment: P. M. Rattansi, M.A., PH.D. (Professor of History and Philosophy of Science), formerly Senior Research Fellow, King's College, Cambridge.

HUMAN GENETICS AND BIOMETRY

Resignation: C. R. P. Wright, M.B., B.CHIR., M.R.C.S., L.R.C.P. (Lecturer), to Baylor University, Houston, Texas.

MATHEMATICS

Appointments: G. N. Lance, M.SC., PH.D., F.A.C.S., F.B.C.S. (Visiting Professor), Chief Scientific Liaison Officer, Australian Scientific Liaison Office, London.
R. M. Seymour, B.A., M.SC., PH.D. (Lecturer), formerly Research Associate, University of Alberta.

PHYSICS

Resignations: S. M. Trujillo, B.S. (Research Fellow).

A. P. Willmore, PH.D. (Professor of Physics), to the Chair and Headship of the Department of Space Research, University of Birmingham.

PSYCHOLOGY

Resignation: T. Shallice, B.A., PH.D. (Lecturer), to Senior Research Fellowship in Neuropsychology, Institute of Neurology; to be Honorary Research Fellow.

ZOOLOGY AND COMPARATIVE ANATOMY

Appointment: N. A. Mitchison, D.PHIL., F.R.S. (Jodrell Professor of Zoology and Comparative Anatomy), formerly Head of the Division of Experimental Biology, National Institute for Medical Research, Mill Hill.

Resignation: P. A. Jewell, M.A., PH.D. (Senior Lecturer), to Chair of Zoology, Royal Holloway College.

FACULTY OF ENGINEERING

CHEMICAL ENGINEERING

Death: M. Guter, PH.D., A.R.C.S., C.ENG., M.I.CHEM.E. (Professor of Chemical Engineering).

ELECTRONIC AND ELECTRICAL ENGINEERING

Appointment: W. J. Bray, M.SC.(ENG.), D.I.C., F.C.G.I., C.ENG., F.I.E.E. (Visiting Professor), Director of Research for the Post Office.

MECHANICAL ENGINEERING

Appointments: W. G. Price, B.SC., PH.D. (Lecturer), formerly held grant-supported research appointment in Department.

K. J. Rawson, R.C.N.C., C.ENG., F.R.I.N.A. (Professor of Naval Architecture), secondment from Royal Corps of Naval Constructors.

Resignation: L. J. Rydill, O.B.E., R.C.N.C., C.ENG., F.R.I.N.A. (Professor of Naval Architecture), to Ministry of Defence, Ship Department, Bath.

PHOTOGRAMMETRY AND SURVEYING

Appointment: A. L. Allan, M.A., A.R.I.C.S. (Lecturer), formerly Principal Lecturer, North East London Polytechnic.

Retirement: C. A. Biddle, M.A., F.R.I.C.S. (Reader in Surveying).

Resignation: B. Chiat, B.SC., A.R.I.C.S. (Lecturer), to Senior Lectureship, Imperial College of Science and Technology.

FACULTY OF MEDICAL SCIENCES

ANATOMY AND EMBRYOLOGY

Resignation: A. W. Prathalingam, B.SC., M.B., B.S., M.R.C.S., L.R.C.P. (Lecturer), to clinical appointment.

BIOCHEMISTRY

Appointment: D. J. Williams, PH.D. (Lecturer), formerly held grant-supported research appointment in Department.

PHARMACOLOGY

Resignation: D. Colquhoun, PH.D. (Lecturer), to Senior Lectureship, University of Southampton.

PHYSIOLOGY

Appointment: K. M. Kretzschmar, PH.D. (Sharpey Scholar), formerly held grant-supported research appointment in Department.

FACULTY OF ENVIRONMENTAL STUDIES

SCHOOL OF ENVIRONMENTAL STUDIES

Appointments: O. G. Edholm, B.SC., M.B., B.S. (Visiting Professor), Head of Division of Human Physiology, National Institute for Medical Research.

J. C. Rae, A.R.I.B.A., A.M.R.T.P.I. (Lecturer), formerly held part-time appointment in Department.

J. D. Sugden, B.A. (Reader in Construction Economics), formerly Research Officer, Department of Applied Economics, University of Cambridge.

Y. Weymouth, B.A., B.S. (Lecturer), from private practice.

P. Willmott, B.SC. (Visiting Professor), Co-director, Institute of Community Studies.

Resignations: Mrs Lois E. Ventris, A.A.DIPL., A.R.I.B.A. (Part-time Lecturer), to grant-supported research appointment in Department.

R. G. M. Webster, M.A., A.R.I.B.A. (Lecturer), to private practice.

J. R. Weeks, A.A.DIPL., F.R.I.B.A. (Part-time Senior Lecturer).

APPENDIX V

PUBLIC LECTURES

COMMEMORATION LECTURE

JEVONS CENTENARY CELEBRATIONS LECTURE

Professor R. D. C. Black, Belfast: 'Jevons, Bentham and De Morgan'.

ENDOWED LECTURES

DOROTHEA COKE MEMORIAL LECTURE IN NORTHERN STUDIES

Dr Brita Malmer, Historical Museum, Stockholm: 'King Canute's Coinage in the Northern Countries'

COMMONWEALTH FUND LECTURE

Professor Eugene D. Genovese, Rochester: 'The Life and Culture of Afro-American Slaves'

THE NEALE LECTURE IN ENGLISH HISTORY

Professor H. R. Trevor-Roper, Oxford: 'Queen Elizabeth's First Historian: William Camden and the Beginnings of English "Civil" History'

LORD NORTHCLIFFE LECTURES IN LITERATURE

Professor Maynard Mack, Yale: 'In Pursuit of Pope' (four lectures)

INAUGURAL LECTURES

Professor W. Beckerman, Professor of Political Economy: 'Economic Science, Science, and Environmental Catastrophe'

Professor A. G. Davies, Professor of Chemistry: 'A Radical Approach to Organometallic Chemistry'

Professor M. Mary Douglas, Professor of Social Anthropology: 'In the Nature of Things'

Professor K. O. Kemp, Chadwick Professor of Civil Engineering: 'Concepts of Structural Safety'

Professor P. A. Samet, Professor of Computer Science: 'Insight, not Numbers'

Professor Mary R. Truter, Professor of Chemistry: 'Alkali Metals: Biology's Challenge to the Inorganic Chemist'

LUNCH-HOUR LECTURES AND FILMS

LECTURES

Professor R. E. D. Bishop: 'Ship Survival in Heavy Weather'

Professor Arthur Brown: 'William McGonagall: The Greatest Bad Verse Writer of his Age'

Professor E. H. Brown: 'Alexander Maconochie, U.C.L. 1833–36—Geographer and Penal Reformer'

Mr M. F. Burnyeat: 'Socrates and Thoreau on Civil Disobedience'

Dr W. G. Chaloner: 'Biafran University Survives a War'
Professor T. J. Chandler: 'Air Pollution: How Dark the Shroud?'
Mrs Joyce P. Crick: 'Decisions and revisions: Thomas and Heinrich Mann in 1914'
Professor A. L. Cullen: 'In Pursuit of the Velocity of Light'
Mr J. M. Dodgson: ' "Are yow frum Brum"—Why is Birmingham called "Brummadgem"?'
Professor J. R. Hale: 'Renaissance fortifications in India, Africa and the Caribbean'
Mr I. Ihnatowicz: 'How to make a Cybernetic Lobster'
Dr E. J. W. Jones: 'Sampling the Deep Ocean Floor'
Dr Shirley E. Jones: 'The Painter and the Writer: Watteau in Literature'
Mr D. K. Lal: 'Developing the Third World—Retrospect and Prospects'
Dr D. McNally: 'Molecular Madness between the Stars'
Dr J. W. Miller: 'Mesmerism in England'
Professor J. Musgrove and Mr C. W. Doidge: 'Space Use at U.C.L. and how the Computer can help'
Mrs Winifred M. T. Nowottny: 'Shakespeare and the Tragi-Comic'
Professor D. G. Osborne: 'University Science in Developing Countries'
Professor Stephen Spender: 'Is Civilization at an end?'
Dr J. L. Watling: 'Teleological and Functional Explanation'
Dame Veronica Wedgwood: 'Mary Queen of Scots and the Dramatists'
Professor J. E. C. T. White: 'Leonardo da Vinci'
Mr Frank Whitford: 'Kandinsky and Schoenberg: Two Pioneers Compared'
Professor Richard Wollheim: 'Bertrand Russell and Politics'
Dr S. Zienau: 'Science at the Crossroads—1930 and Now'

FILMS

'Greek Papyri' (a film by Mirek Dohnal), introduced by Professor E. G. Turner
'More than meets the eye' (B.B.C. television film on perspective), introduced by Dr A. R. Jonckheere
'Richard Hamilton' (a film by James Scott) and 'Malevitch Suprematism' (a film by Lutz Becker), two Arts Council films, introduced by Lutz Becker
'The Alder Woodwasp and its Insect Enemies' and 'Life History of the Cabbage Butterfly' (two Oxford scientific films), introduced by Lutz Becker
'Brazil—The Gathering Millions' (a film by the National Education Television of the U.S.A.), introduced by Lutz Becker
'Music and Image (Synthesis or Symmetry)' introduced by James Leahy
'Mathematics on Film: "Non-Euclidean Geometry" and "Four-line Conics" ' introduced by James Leahy

LECTURES ARRANGED BY COLLEGE DEPARTMENTS

This list includes only those lectures given by visiting lecturers or by honorary members of the staff.

ANATOMY AND EMBRYOLOGY

Professor G. A. Horridge, Australian National University: 'Exhumation and Reburial of Superposition Eye'
Professor T. H. Waterman, Yale: 'Polarized Light Perception by Animals'

SCANDINAVIAN STUDIES

Mr G. Fagrell, Minister, Royal Swedish Embassy: 'God Save us from our Friends! Sir John Moore's Expedition to Gothenburg in 1808'

ZOOLOGY AND COMPARATIVE ANATOMY

Dr Susumu Ohno, City of Hope Medical Center, Duarte, California: 'Sex and a Genetic Regulatory System'

APPENDIX VI

NUMBERS OF STUDENTS, SESSION 1971–72

	Under-graduate	*Post-graduate*	*Totals*
Faculty of Arts	1,316 (329)	530 (148)	1,846 (477)
Department of Political Economy ..	176 (3)	30 (5)	206 (8)
Slade School of Fine Art	83 (5)	98 (4)	181 (9)
	1,575 (337)	658 (157)	2,233 (494)
Faculty of Science	990 (5)	*472 (116)	1,462 (121)
Faculty of Medical Sciences	†270 (0)	3 (2)	273 (2)
Faculty of Engineering	397 (5)	202 (45)	599 (50)
Faculty of Laws	‡362 (30)	§188 (57)	550 (87)
Faculty of Environmental Studies ..	137 (4)	246 (35)	383 (39)
	3,731 (381)	¶1,769 (412)	5,500 (793)

The figures in brackets indicate the number of part-time students included in the total under each head.

*This figure includes 84 full-time and 30 part-time postgraduate students working in the College Faculty of Medical Sciences who were registered in the University Faculty of Science.

†There are included as full-time 48 students, studying for 2nd M.B., who left the College at the end of the second term, having concluded the course

‡This figure includes 44 full-time undergraduate students studying for a B.Sc. in International Relations who were registered in the University Faculty of Economics.

§This figure includes 6 full-time and 3 part-time postgraduate students studying for an M.Sc. in International Relations who were registered in the University Faculty of Economics.

¶Of this number 1,332 were registered for higher degrees of the University of London; the remainder were working for higher diplomas of the University or the College, or for the higher degrees of other Universities or were engaged in research work, or attending postgraduate lecture courses.

APPENDIX VII

GEOGRAPHICAL DISTRIBUTION OF STUDENTS, SESSION 1971–72

	Under-graduate	*Post-graduate*	*Totals*
UNITED KINGDOM	3,377	1,195	4,572
BRITISH COMMONWEALTH OF NATIONS			
Australia	7	33	40
Canada	8	59	67
Ceylon	6	11	17
Cyprus	20	4	24
Hong Kong	18	9	27
India	12	27	39
Kenya	10	7	17
Malaysia	22	8	30
Nigeria	4	14	18
Pakistan	6	19	25
14 other countries	24	35	59
OTHER PARTS OF THE WORLD			
Brazil	3	10	13
Egypt	0	16	16
France	32	6	38
Greece	14	49	63
Iran	10	12	22
Iraq	2	13	15
Israel	2	9	11
Japan	3	4	7
South Africa	4	12	16
Spain	3	5	8
Sudan	0	15	15
Turkey	8	13	21
U.S.A.	56	76	132
Venezuela	4	11	15
West Germany	21	12	33
44 other countries (including 2 Stateless postgraduates)	55	85	140
	3,731	1,769	5,500

SUMMARY

United Kingdom	4,572
British Commonwealth of Nations	363
Other parts of the world	565
	5,500

APPENDIX VIII

ADMISSION OF FIRST DEGREE AND FIRST DIPLOMA STUDENTS SESSION 1971–72

FACULTY OF ARTS	*Students admitted October* 1971
B.A. Honours	
Anthropology & Linguistics	4
Classics	13
English	40
English & History of Art	2
French	29
French & History of Art	3
French & Linguistics	2
French & Philosophy	1
Geography	40
German	22
German & History of Art	2
German & Linguistics	3
German & Swedish	5
German & Danish	1
Hebrew	4
Hebrew & Egyptian	2
Hebrew Literature & Jewish Studies	2
History	38
History & History of Art	4
Italian	3
Italian & History of Art	4
Latin with Greek	3
Modern Iberian & Latin American Regional Studies	10
Norwegian & Icelandic	2
Philosophy	21
Philosophy & Economics	3
Philosophy & History of Art	2
Philosophy & Linguistics	1
Scandinavian Studies	7
	273
B.Sc. (Econ.)	71
University Diploma in Fine Art	18

	Students admitted October 1971
FACULTY OF SCIENCE	
B.Sc. Degree	
Anthropology	27
Astronomy	20
Biochemistry	22
Biological Sciences	8
Botany	3
Chemistry	55
Chemistry & Physics	8
Geography	23
Geology	16
Mathematics	50
Microbiology	25
Pharmacology	6
Physics	36
Physics (Applied)	19
Physiology	10
Psychology	33
Statistics	16
Zoology & Comparative Anatomy	15
	392
FACULTY OF LAWS	
LL.B.	101
B.Sc. in International Relations	7
	108
FACULTY OF ENGINEERING	
B.Sc. (Eng.)	
Civil & Municipal Engineering	29
Electronic & Electrical Engineering	48
Mechanical Engineering	34
Chemical Engineering	36
	147
FACULTY OF MEDICAL SCIENCES	
2nd M.B.	109
2nd B.D.S.	47
	156
FACULTY OF ENVIRONMENTAL STUDIES	
B.Sc. Degree in Architecture, Planning and Building	41
Total	1,206

APPENDIX IX

UNIVERSITY FIRST DEGREE AND DIPLOMA AWARDS

1 OCTOBER 1971—30 SEPTEMBER 1972

FACULTY OF ARTS

B.A. Degree	*1st Class Honours*	*2nd Class Honours*		*3rd Class Honours*	*Pass*	*Total*
		Upper Div.	*Lower Div.*			
Archaeology	—	1	—	—	—	1
Classics	3	3	4	—	—	10
English	3	11	16	8	—	38
French	1	8	10	1	—	20
German	3	4	6	2	—	15
Geography	—	5	4	—	—	9
Hebrew	—	—	1	—	—	1
Hebrew Literature and Jewish History	—	1	2	—	1	4
History	6	13	16	1	—	36
Italian	—	—	2	1	—	3
Jewish History	—	—	1	—	—	1
Latin	—	—	2	3	—	5
Modern Iberian and Latin American Regional Studies	1	3	2	—	—	6
Philosophy	4	6	6	—	—	16
Scandinavian Languages	—	5	2	—	—	7
Anthropology and Linguistics	—	—	2	1	—	3
English and History of Art	—	1	—	—	—	1
English and Linguistics	—	—	1	1	—	2
French and Philosophy	—	1	—	—	—	1
German and History of Art	—	1	1	—	—	2
History and History of Art	—	3	1	—	—	4
Philosophy and Economics	—	1	—	—	—	1
Philosophy and Linguistics	—	2	—	—	—	2
	21	69	79	18	1	188

University Diploma in Fine Art: 26 students passed.

FACULTY OF LAWS

	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Pass	Total
LL.B. Degree	—	24	47	10	7	88

FACULTY OF SCIENCE

B.Sc. Degree	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Pass	Total
Anatomy	4	7	1	—	—	12
Anthropology	2	9	4	2	—	17
Architecture, Planning, Building and Environmental Studies	6	9	13	9	2	39
Astronomy	2	2	4	—	—	8
Biochemistry	5	7	9	2	—	23
Botany	—	1	9	1	—	11
Chemistry	7	5	17	10	2	41
Chemistry and Physics	—	2	2	2	—	6
Combined Science	—	—	—	—	2	2
Genetics	—	2	1	—	—	3
Geography	6	23	20	4	—	53
Geology	1	3	8	5	—	17
Information Science	—	—	1	2	—	3
Mathematics	7	4	13	5	2	31
Microbiology	3	13	8	1	—	25
Pharmacology	2	8	3	—	—	13
Physics	5	9	14	8	1	37
Physiology	1	10	3	—	—	14
Psychology	7	13	14	4	1	39
Statistics	2	4	3	2	1	12
Zoology	—	8	2	1	—	11
	60	139	149	58	11	417

B.Sc. Degree (Aegrotat)	Pass	Total
Genetics	1	1

FACULTY OF ENGINEERING

	1st Class Honours	2nd Class Honours Upper Div.	2nd Class Honours Lower Div.	3rd Class Honours	Pass	Total
B.Sc. (Engineering)	16	28	18	26	9	97
B.Sc. (Engineering) in Chemical Engineering	1	8	4	7	1	21

FACULTY OF ECONOMICS

	1st Class Honours	*2nd Class Honours*		*3rd Class Honours*	*Pass*	*Total*
		Upper Div.	*Lower Div.*			
B.Sc. (Economics)	1	16	19	6	2	44
B.Sc. in International Relations	1	9	4	2	1	17
B.Sc. in International Relations (Aegrotat)	—	—	—	—	1	1

FACULTY OF MEDICINE

Second Examination for Medical Degrees: 104 students passed.

Second Examination for Dental Degrees: 41 students passed.

APPENDIX X

UNIVERSITY HIGHER DEGREE AND HIGHER DIPLOMA AWARDS

1 OCTOBER 1971—30 SEPTEMBER 1972

FACULTY OF ARTS

Ph.D. *Anthropology:* †Pamela M. Constantinides, Virginia R. C. Luling. *Archaeology:* Avgi-Maria Proukakis. *Architecture:* N. T. Bowman, J. Paul. *Classics:* J. A. Butterworth, M. W. Haslam, D. Hughes, C. Markopoulos. *English:* Heather Allan, Elizabeth I. Brady, D. J. Daniell, G. E. Fitzgerald, T. E. Flynn. *Fine Art:* T. B. Dickinson. *French:* R. A. York. *German:* Victoria L. Rippere. *Geography:* M. R. Handley Jones, C.-S. Liang, W. I. Morrison, Linda A. Newson. *History:* F. N. Affleck, T. J. Cornell, Madelaine G. D. Evans, R. J. B. Knight, Jane L. Rendall. *Philosophy:* Hideko Ishiguro. *Phonetics:* Jill D. Graham, L. A. Jackson, A. Laufer. *Psychology:* R. J. Hodgson, R. Maliphant, Saradha D. Supramaniam. [33]

M.Phil. *Anthropology:* Cynthia J. Baker, Sharon R. Kaufman. *English:* M. J. Gray, Jean E. Howard, Jennifer M. Hunt, Gillian E. Mayo, Gloria M. G. Williams. *French:* A. O. Orebanjo. *Library, Archive and Information Studies:* S. I. A. Kotei. *Philosophy:* B. A. F. Hubbard, C. Tannenbaum. *Psychology:* Bhavana P. Trivedi. *Town Planning:* I. C. Alexander, S. R. Ankers, M. J. Bacon, G. F. Blundell, Suzanne M. Burn, Deborah Cristman, Helen Dimond, S. S. Harry, R. Jefferson, R. J. C. Jensen, M. G. Kenworthy, R. Lowenstein, Hazel I. McKay, C. R. Ousey, Gillian Radford, P. J. Robinson, C. M. Ruddlesden, Ziona S. Strelitz, L. M. Struthers, C. L. E. Tsang, R. L. White. [33]

M.A. *Architecture:* Harriet J. Eley, Karin Ganssauge, M. G. Lafferty, P. M. Liddiard, Margarita Milissis, Alete Ramos De Oliveira, D. W. Sweeney. *Area Studies:* J. A. Bailey, Joan G. Collis, Kay E. Farrow, C. E. N. Harries, Jennifer A. Horton, D. A. Hudson, Josephine Orba, J. Pearson, Janet E. Sage, A. R. Western, G. R. Zieren. *English:* Mildred O. Budny, J. Gaist, C. C. H. Gnutzman, H. W. Heck, *Joy Webster. *German:* N. Williamson. *Library and Information Studies:* R. C. Benge, Anne R. Bugden, A. G. Curwen, Audrey Dölitzscher, Maria M. Hernandez de Sosa, J. I. Horacek, B. Houghton, *B. Hunnisett, D. R. Jamieson, *Patricia J. Layzell Ward, Muriel K. Mailes, Mirian H. Miller, J. Ndegwa, B. C. Skilling. [38]

University Postgraduate Diplomas: Archive Studies, 12‡; Fine Art, 31; Library and Information Studies, 51§; Social Anthropology, 4; Town Planning, 15. [113]

*Awarded a mark of distinction. ‡3 candidates awarded mark of distinction. §6 candidates awarded mark of distinction. †Also registered at another Institution.

FACULTY OF ECONOMICS

Ph.D. *Economics:* A. W. Evans *International Relations:* C. R. Mitchell, K. Siddiqui. [3]

M.Sc. *Economics:* A. J. Bernstein, J. E. Cousin, D. Dogas, Laura K. Lyttleton, E. Poupos, Dagmar Shaw, S. G. Strange, P. J. Tysome, D. Vittas-Bittas. *International Relations:* E. A. Aunger, R. M. Belfast, S. Bhattacharyya, Vivien R. Korn, D. R. Ugen, S. H. Weiss, *Planning Studies:* P. Bates, F. J. Galarraga, M. J. Oxley, J. D. Ratcliffe, N. P. Woodroffe. [20]

FACULTY OF LAWS

Ph.D. V. O. Achimu, A. B. K. Anane, M. Okyere-Boateng, J. Smith. [4]

M.Phil. R. A. Burgess. [1]

LL.M. (Old Regs.) C. M. Atif, C. G. O. Babatola, A. D. Goonewardene, J. A. Ojeme. [4]

LL.M. (New Regs.) S. S. Abbas, Y. O. Abina, A. A. Adebowale, Doris H. Afejuku, Emma Akainyah, B. A. Akwiwu, F. Antonopoulos, R. G. Belliveau, C. S. Bobis, C. J. L. Brabazon, P. A. Buttar, W. W. Caldwell, Alpha M. Connelly, M. A. H. Cottle, A. E. T. El Gaali, A. A. El-Hakim, G. I. Emiko, P. D. Finn, J. M. Fulthorpe, A. G. Gavanas, Kathleen S. Goddard, D. T. Gunter, R.-C. T. Habesch, R. A. Hemmings, P. J. M. Heppel, J. S. Kitchen, *G. A. Leger, H. J. Levy, R. I. Lewis, M. G. Macdonald, A. A. E. McAtamney, A. Metaxas-Tricardos, C. R. D. Miller, I. A. Musa, D. R. Owen-Jones, Linda F. Potts, J. Reeder, Rin Lee Ching Kwok, M. S. Sahgal, F. H. Santoro, R. J. Scott, H. Singh, P. B. Skinner, G. Taft, M. U. Vaswani, D. N. Vogel, D. M. Welch, R. M. White, R. W. Williams, A. O. Yerokun. [50]

University Postgraduate Diplomas: Law, 1; Shipping Law, 17. [18]

FACULTY OF SCIENCE

D.Sc. D. V. Banthorpe, N. F. Dixon, M. D. Johnson, Mary Whitear. [4]

Ph.D. *Anatomy and Embryology:* G. Allt, Marjorie A. England, Felicity Grainger, R. A. Willis, C. C. Wylie. *Animal Genetics:* Anne C. Berry. *Anthropology:* †J. A. Lourie. *Architecture:* C. W. Doidge, B. C. Honikman. *Astronomy:* Alison P. Brown, K. J. H. Phillips, Shahinez M. A. Yousef. *Biochemistry:* M. E. Haines, G. K. Jowett, G. O. Humphreys, F. A. Pennington, P. I. Stanley, P. J. Tattersall. *Biophysics:* J. A. Coles. *Botany and Microbiology:* J. H. Baker, B. B. Chimphamba, I. R. Joint, G. Orbell, P. M. Rhodes. *Chemistry:* M. J. Braithwaite, K. E. Clemens, G. Greenwood, N. Hamson, R. C. Henriques, Altheia Jones, J. D. Jones, A. G. Knapp, G. N. J. Le Patourel, J. H. McCartney, P. N. Quested, A. P. Rood, Syed Safi Ullah, M. J. Thomson, K. P. C. Vollhardt, Gwyneth M. Weese. *Geography:* J. O. Ayoade, M. Belachew,

*Awarded a mark of distinction. †Also registered at another Institution.

P. W. Daniels, G. F. Parsons, J. R. G. Townshend. *Geology:* T. M. Ajina, P. Dolan, T. A. Getty, R. M. Luis, D. Price. *History and Philosophy of Science:* J. A. Chaldecott, J. Wartnaby. *Human Genetics:* Josephine Peters, Moira Smith, Dallas M. Swallow. *Mathematics:* D. A. Bennetts. *Physics:* G. L. Awad, D. E. Burgess, Jean A. Cross, J. V. C. Dias de Deus, M. W. Evans, A. C. Fabian, M. I. Gillespie, P. Grujic, J. A. Hackwell, M. Jones, P. S. Jones, Lam Che Ping, D. H. Maharajh, J. Murdin, P. G. Polden, ‡M. L. Shaw, D. N. Tovee, R. J. Tweed. *Physiology:* P. A. Kirkwood, I. C. H. Smith, B. K. Thairu, Phil M. E. Waite. *Psychology:* O. F. D. Chadwick, J. St. B. T. Evans, A. E. M. Seaborne, Janet E. Stockdale, †Alison C. Webb. *Statistics:* R. J. Brooks, A. F. M. Smith. *Zoology and Comparative Anatomy:* C. A. Middleton, G. D. McKiel [87]

M.Phil. *Anthropology:* Hermione G. Fleming. *Astronomy:* J. B. Murray. *Chemistry:* T. W. Brown, N. E. Rowland. *Physics:* J. C. Gilbert. *Physiology:* Carla J. Shatz. *Statistics:* D. Haghighi-Talab. [7]

M.Sc. (Old Regs.) *History and Philosophy of Science:* Muriel Seltman. [1]

M.Sc. (New Regs.) *Architecture:* P. A. Brohn, R. P. Hankins, A. V. Jones, K. H. Lee, A. D. Matheson. *Biochemical Engineering:* B. C. I. Buckland, N. Burgin, *I. V. Diers, R. W. Fuggle, *M. Hoare, R. Martin Roure, *J. L. Short. *Biochemistry:* Elizabeth B. Ackroyd, Vivienne R. Allen, R. W. Fakes, C. J. Jones, D. H. Jones, K. S. Last, C. F. McArdle. *Conservation:* Penelope A. Anderson, G. C. Barrow, R. J. Bleakley, D. E. Coleman, R. D. M. Edgar, Clare E. Gray, M. Kent, Janet Kiff, Susan J. D. Mackenzie, L. Patterson, Barbara D. Walker. *Educational Psychology:* N. W. Adams, Jill E. Bavin, M. Bodden, J. P. Colwell, D. M. Galloway, Diana M. Krailing, Barbara D. Moorhouse, Alison M. Nicholson, G. E. F. Trickey. *Geography:* A. S. E.-D. Abdu, J. R. Marshall. *Marine Earth Science:* Pauline R. Ansell, J. A. Dorling, D. C. Edgar, T. G. Evans. E. A. Khan, J. O. D. Morais, D. R. Sallis, S. P. Waters. *Physiology:* W. D. A. Berry, A. W. S. Brown, P. M. Cameron, S. G. Cull-Candy, A. N. Johnson, A. T. Judd, J. L. Kasule, A. Mangalji. *Statistics:* S. Ghahreman, *T. Leonard, J. W. McNicol, N. M. Raffee, B. I. Syed, *D. Teather, B. Torsney. *Vertebrate Palaeontology:* *D. E. Pacey. [65]

*Awarded a mark of distinction. †Also registered at another Institution. ‡External student.

FACULTY OF ENGINEERING

Ph.D. *Chemical:* B. A. Harwood, C. J. Luck, D. C. Warburton. *Civil and Municipal:* N. Adil, R. G. Dawson, P. L. J. Domone, P. K. Y. Tsang, J. Weaver, M. D. Weston. *Electronic and Electrical:* R. M. De La Rue, R. F. Humphryes, M. A. R. Pereira De Barros, E. Vilar Mestre, R. L. Wierich. *Mechanical:* W. H. Barclay, N. R. Elias, J. P. Marsden, N. J. Osborne, D. A. Rose, J. Sillitoe. [20]

M.Phil. *Mechanical:* B. L. Davies, G. D. Wale. [2]

M.Sc. *Biochemical Engineering:* S. P. Agathangelou, A. B. Bowden, L. V. Canavesi, *J. A. Lockwood, Z. R. Lugones. *Ergonomics:* B. M. Brooks, D. H. Brown, S. D. Kamm. *Microwaves and Quantum Electronics:* M. N. Afsar, S. R. Al-Lami, A. J. Al-Waggaa, M. E. Butcher, Chan Chack Kuen, A. R. Darbandi-Tehrani, S. S. Dhillon, M. A. Hadjidimitriou, G. T. Kanfer, J. M. Ozonian, M. Patel, B. W. Thomas, R. J. Tinley, Tung Kie Yin. *Naval Architecture:* D. J. Andrews, J. Anghelides, S. P. Berto, A. D. S. Bittencourt, J. D. Coles, A. Davidson, K. C. De Brass, M. Ghulam, S. J. Holmes, J.-H. Jorde, C. N. Palmer, D. C. Wight. *Photogrammetry:* P. S. Amin, A. P. J. Savage, K. S. Wilson, *R. S. Wood. [38]

FACULTY OF MEDICINE

Ph.D. *Physiology:* M. Mugambi. *Zoology and Comparative Anatomy:* †C. N. Wiblin. [2]

*Awarded a mark of distinction. †Also registered at another Institution.

APPENDIX XI

COLLEGE DIPLOMA AND CERTIFICATE AWARDS
1 OCTOBER 1971—30 SEPTEMBER 1972

FACULTY OF ARTS

Diploma in Film Studies: Elfreda Helen Epp.† [1]

Certificate of Proficiency in Phonetics: Juan Antonio Alvarez Gonzalez; Marie Babonneau; Jane Christine Breeze; Marie Chatterley; Kalaya Chitrabongs; Sandra Ann Corbyn; Pamela Margaret Evelyn Currie; Claudine Dauvergne; Raymond Delmas; Timothy Patrick Demore; Denise Deshaies-Lafontaine; Caroline Sarah Douglas; Robin Peter Farnham; Jorgelina Marcela Fracassi; Rayna Freed; Luisa Granato Grasso; Claudia Maria Gdaniec; Lorna Molly Gebethner; Edith Genet; Pamela Elizabeth Grew; Nina Hajnal; Ann Hayes; Ruth Monica Felicity Hixson; Volker Huss; Ehrhard Herbert Friedrich Hutz; Andree Elizabeth Johnson; Mary Clare Latham; Bridget Barrington Lewis; Richard Jean Meynier de Salinelles; Reinhard Pricking; Gertrude Roland; Amina Santacross; Carmen Silva Corvalan; Christoph Spital; Dina Tabet; Lesley Joy Talbot; Noelle Tripier; Jennifer Ann Vincent; Felicity Gayna Walls; Margaret Currie Wiffen. [40]

Diploma in Urban Studies (Developing Countries): Jorge Patricio Arancibia Beaumont; Eduardo Davila Haas; Mahendra Thakorlal Desai; El Sayed Mohamed El Husseni; Alfred William Glover-Akpey; Ana Magdalena Leonor Herrera Angel; Lubosi Imwiko, Guillermo Joseph Wignal, *Mitha Lal Mehta; Maria Eleonora Freire Motta; Chellappan Parameswaran Nair; Hasan Unal Nalbantoglu; Samuel Akrofi Ocansey; George Avi Enyonam Sepenu; Milagros Ammen Somera; *Abdullah Bin Tarmugi; †Licia Do Prado Valladares; Frederic Joseph Vaz; Yi-Hou Lin. [19]

FACULTY OF SCIENCE

Diploma in Conservation: Jeremy Lorn Anderson; Penelope Ann Anderson; Graham Christopher Barrow; Robert James Bleakley; Shirley Anne Bray; †David Ian Brotherton; Annabel Mary Coker; David Edward Coleman; Robert David Mattuck Edgar; George Allan Foster; Clare Elizabeth Gray; Martin Kent; Janet Kiff; Hilary Lorna Kitcat; Susan Janet Douglas Mac-Kenzie; Hazel Jean Penfold; Janet Elizabeth Towler; Barbara Dalrymple Walker; Robert Paul Redston Warner; Graham Leslie Wills. [20]

Diploma in Space Science: Maureen Patricia Neal; Derek William Sears. [2]

Diploma in Statistics: Gillian Minnie Adams; Gillian Katherine Cousins; †Simon Cedric Valentine Godfrey; Denis Howard Laurence Martin; Hilary Patricia Pontin; Eileen Rees; †Frances Mary Serota; †Michael Kia-Shu Tso; Philip Langston Turnbull. [9]

*Awarded with Merit. †Awarded with Distinction.

FACULTY OF ENGINEERING

Diploma in Biochemical Engineering: Savvas Philippou Agathangelou; Alan Brian Bowden; Barry Christopher Ian Buckland; Neil Burgin; Lavinio Vincenzo Canavesi; Ivan Verner Diers; Roger William Fuggle; Michael Hoare; John Andrew Lockwood; Zenon Roberto Lugones; Roger Martin Roure; John Lawson Short. [12]

Diploma in Chemical Engineering: Derek John Faver; Corbett John Poynton; Seow Kiat Chua. [3]

Diploma in Microwave Engineering: Mohammed Nurul Afsar; Abdul Jabar Al-Wagga; Chan Chack Kuen; Ali Reza Darbandi-Tehrani; Surjit Singh Dhillon; Michel Athanase Hadjidimitriou; Inderjit Singh Hudiara; George Thomas Kanfer; Jirair Manouk Ozonian; Mahendrakumar Patel; Somenhalli Rammurti Rao; Mohammad Shahidi Hamedani; Barry William Thomas; Roger James Tinley; Tung Kie Yin. [15]

Diploma in Naval Architecture: David John Andrews; John Anghelides; Sergio Paulo Berto; Armando de Senna Bittencourt; John David Coles; Anthony Charles Deryck Crow; Andrew Davidson; Kevin Cecil De Brass; Mujtaba Ghulam; Stewart John Holmes; Jens-Herman Jorde; Christopher Neal Palmer; Donald Campbell Wight. [13]

Diploma in Photogrammetry: Harold John Law; Susan Wentworth Venning. [2]

Diploma in Surveying: Keith William Bone; William Francis Price. [2]

FACULTY OF ENVIRONMENTAL STUDIES

Diploma in Architecture: Michael John Bedford; Richard Holmes Bennett; Jonathan Jay Boon; William Edward Bott; Paul Arden Bridger; Edward Cheng Wing Sang; Michael Anthony Crosby; Frank Robert Day; John Peter Fox; Ioma Shanti Jayewardene; Christopher John Joule; Mark Gregory Julian; Martyn Paul May; David George Palmer; David Prichard; Nicholas John Ray; Jonathan Jeremy Snowdon; Robert Carruthers Sprunt; Stuart Forsyth Watson; Elizabeth Ann Wyatt; John Gilbert Yard; Zdena Alexandra Zetkova. [22]

Diploma in Development Planning: Ghulam Abbas; Rafael Angel Aguero Segura; Basil Younise Al-Bayati; Raghis Abdul Wahhab Amin; Ashfaq Ahmad Khan; Ahmed Beshir Awadalla; Meera Mahadev Bapat; Augusto Cesar Cramer De Otero; Daly Dharmawan; Lorenzo Fonseca Martinez; Bernard Boda Gette; Ian Cornelius Thomas Hayes-McCoy; Klaus Holm; Frederik Jadera; Zina Toma Kafilmout; Prashant Madhukar Kharkar; Michael Patrick Lewis; Eltayeb Bedawi Medawi; Mg Maung Gyi; Donatus Chukunyere Obialo; Andres Orrantia Herrera; Parmanand Parsad; Johann Peter Pieper; Parviz Rezagholizadeh; Rafael Ros; Douglas Eusebio Alejandro Russell-White; John Nicol Saad; Mahmoud Saee; Joachim Otto Ernst Schmidt; Se Kwon Kim; Ilmar Teng; U Tin Aung; Randolph von Breymann-Acosta; Uri Stefan Winterstein; Yousif Shoeib Mohamed. [35]

Certificate in Town Planning: Cecil Elliston Ball; Rajinder Singh Bhatia; Barry Edmund Boston; Michael Frank Crush; Pinaki Ranjan Dasgupta; Shirley Louise Donovan; James Edward Guthrie; Maria Karantinos; Bruce Colin Methven; Semtov Samuel; Arthur Michael Sanderson; David Anderson Smart; Kenneth James Virgin; Norman White. [14]

APPENDIX XII

SCHOLARSHIPS, STUDENTSHIPS, AND PRIZES
COLLEGE AND UNIVERSITY AWARDS

COLLEGE AWARDS

Anatomy Prizes—Medical: Claire S. Lanyi. *Dental:* P. A. Banks.

Charlotte Ashby Prize (*Laws*).—P. Franklin.

Sarah M. Baker Memorial Prize (*Botany*).—Patricia C. Anderson.

Herbert Batsford Prize (*Architecture*).—Harriet L. Jedwab.

Thomas Witherden Batt Scholarships (*Science*).—K. G. R. Allen; Lynn O. Allen; W. Allison; J. Darius; Linda Gower; L. S. Marvin; J. G. Vinter.

Leonard Bayliss Memorial Prize (*Physiology*).—Susan E. Smith.

Bayliss-Starling Memorial Scholarship (*Physiology and Biochemistry*).—E. C. Cook.

Francis Perch Bedford Prize (*Zoology*).—Sandra D. Barlow and D. T. Horsley, prize equally divided.

Bonney Prize (*Geology*).—M. J. Oates.

R. E. Bradbury Memorial Prize (*Anthropology*).—C. C. Clerk.

Brodrick-Parry Prize (*Geography*).—W. S. Bell and R. T. Hartman, prize equally divided.

Margaret Browne Studentship (*Zoology*).—J. R. Rhodes (one term).

The Chadwick Medal and Prize (*Civil Engineering*).—Anna C. Ioannou.

Churchill-Jenkinson Prize (*Archive Administration*).—R. E. Harris.

Antonio Cippico Medal and Prize (*Italian*).—Susan M. T. Lavender.

Clinton Prize (*Electrical Engineering*).—R. W. Wood.

Lilian Clarke Prize (*Botany*).—S. J. Bungard.

Dawes Hicks Scholarships in Philosophy.—M. Warburton.

Donaldson Medal (*Architecture*).—J. R. Irish.

Early English Text Society's Prize.—J. Henzell-Thomas.

Esso Chemical Travelling Scholarship (*Chemical Engineering*).—P. J. F. Gladman.

Richard FitzGerald Prize (*Engineering*).—J. F. P. Eddison.

Sir Banister Fletcher Prize and Medal (*Architecture*).—M. J. Bedford.

Flinders Petrie Scholarship in Egyptian Archaeology.—Elizabeth A. Naylor-Leyland.

Foyle Prize (*Latin*).—Rosalind M. J. Hepplewhite.

Edith Goodyear Prize (*Geology*).—P. J. Shaw.

Eva Grunwald Memorial Prize (*French*).—P. J. Hosier.

Violet Hall Prize (*French*).—Elizabeth S. Weetch.

Hart Prize (*Surveying*).—W. F. Price.

Archibald P. Head Memorial Medal and Prize (*Mechanical Engineering*).—T. J. Cook.

Heimann Medal (*German*).—Gerlind W. Richards.

John Oliver Hobbes Memorial Scholarship in Modern English Literature.—R. K Todd; *proxime accessit*, Kathleen M. O'Neil.

Hollier Scholarships in Greek.—Caroline C. Pickett; Heather White.

Hotine Exhibition (*Surveying*).—W. F. Price.

R. B. Hounsfield Prize in Traffic Engineering.—Anna C. Ioannou.

R. B. Hounsfield Prize in Town Planning and Civic Engineering.—C. R. Ousey.

Joseph Hume Scholarship in Laws.—D. Hingley.

Hurst Prize in English Law.—Melinda S. Collins.

Institution of Mechanical Engineers Prize.—A. R. McIntosh.

Institution of Electrical Engineers Prize.—R. B. Doshi.

Jackson Lewis Scholarship.—L. C. F. Lam Tin Cheung.

Sir Hilary Jenkinson Scholarships in Archive Administration.—Anne F. Sutton, Rosemary T. B. Collier, B. L. Harrison.

Jolowicz Prize (*Roman Law*).— M. S. Gill.

Ker Memorial Prize (*English*).—Linda J. Cassell.

Kitson Prize (*Chemical Engineering*).—Lee Chee Fook.

Librarianship and Archives Exhibitions.—Jillian Kerr, C. S. Hannabuss.

Sir John MacAlister Medal (*Librarianship*).—Vanda D. Broughton.

Sir William Meyer Prize (*Geography*).—Judith D. Welch.

Sir William Meyer Prize (*History*).—R. W. Roberts.

Sir Willam Meyer Travelling Studentships (*History*).—N. C. Cox; C. N. Dymond; K. Hogan; Christine A. King; Cheryl Ouseley; Mary M. Reilly; R. B. Waterhouse

John Stuart Mill Scholarship in Philosophy of Mind and Logic.—M. Warburton.

Momber Scholarship in Physics.—A. R. G. Jackson.

Rosa Morison Scholarship in English Language and Literature.—Alison Mark.

Morley Medal (*Modern English Literature*).—M. Oxenius.

Morris Prize (*Geology*).—M. E. Jones.

Douglas Murray Scholarship in Egyptology.—G. A. J. Hart.

Oliver Scholarship in Botany.—Patricia C. Anderson.

Perren Studentship (*Astronomy*).—J. Darius.

Physiology Prizes.—Medical: J. A. Hutter. *Dental:* Sharon R. Woolf.

Platt Prizes (*Greek*).—Marlene A. Nelson; D. E. Passingham.

Postgate Prize (*Classical Philology*).—Alexandra A. Nagarkar.

Quain Studentship in Biology.—Phillippa J. Kaplan.

Quain Studentship in English.—M. D. Wheeler.

Ramsay Memorial Medal (*Chemistry*).—D. Griller.

Ellen Richards Prize (*Botany*).—Patricia C. Anderson.

Graham Robertson Travelling Scholarship (*Fine Art*).—L. Ayres, W. Ellis, J. E. Fox, scholarship equally divided.

Sharpey Physiological Scholarship.—K. M. Kretzschmar.

Slade Scholarships.—P. Hammond.

Hugh Smith Memorial Prize (*Scandinavian Studies*).—Susan Barr.

Stevenson Prize (*Applied Mathematics*).—Arpita Datta and J. C. Trice, prize equally divided.

Suckling Memorial Prize (*Practical Anatomy*).—Rowena K. Sutton.

Sully Scholarship (*Psychology*).—M. G. Smith (one term).

Sir Andrew Taylor Prize in Architecture.—D. Prichard.

Henry Tonks Prize (*Fine Art*).—Sally Morgan.

Tuffnell Scholarships (*Chemistry*).—G. J. Hughes, G. J. Hutchings.

L. F. Vernon-Harcourt Prize (*Civil Engineering*).—P. W. J. Raven.

Ellen Watson Memorial Scholarship in Applied Mathematics.—Jeanette E. Nelson.

FACULTY MEDALS AND PRIZES

Arts: Rosa Morison Medals and Prizes.—Anne Nagarkar, Clare C. Pickett and Mary Wilson.

Science Medal and Prize.—A. R. G. Jackson.

Engineering: Goldsmid Medal and Prize.—R. B. Doshi.

SESSIONAL PRIZES

Anthropology: Rosa Morison Prize.—R. H. Crompton.

English: Campbell Clarke Scholarships.—(1) R. K. Todd. (2) R. J. Dimond.

West Scholarship.—Jane E. Ellis and Kathleen M. O'Neil, prize equally divided.

French: Rosa Morison Prizes.—(1) Fortunée Gholam. (2) Margaret M. Sanderson. (3) Sandra Whiting.

Geography: College Prize.—M. P. Tight. *Maconochie Prize.*—A. T. Roe. *1903 Prize.*—Judith Sutton.

German: Robertson Prize.—A. P. Nock. *Willoughby Prize.*—Diane E. Sherlock.

Greek: Long Prize.—Rosaline M. J. Hepplewhite and Julia C. Swannell, prize equally divided.

History: Dolley Prize.—P. J. Morgan. *Pollard Prize.*—R. Maynard. *West Prize.*—C. J. Bradey.

Italian: Sir Anthony Panizzi Prize.—L. G. Polley.

Latin: Key Prize.—R. C. Dodsworth.

Political Economy: Hume-Lloyd Scholarships.—(1) Gillian Barnet. (2) R. B. Culver and R. P. Fardon, prize equally divided. (3) S. I. Kay and P. G. Thomas, prize equally divided.

Scandinavian Studies: Rosa Morison Prize.—Sara B. Rust.

Laws: Andrews Prizes.—(1) Melinda S. Collins. (2) R. J. Prize. (3) T. R. Gregory. (4) J. G. Copeland. (5) H. H. K. Tsoi.

Astronomy: Huggins Prize.—A. J. Willis.

Architecture: Bartlett Prizes.—(1) A. J. Davey. (2) J. K. F. Chapman and Cecilia K. Humphreys, prize equally divided.

Biochemistry: Jack Drummond Prize.—D. G. Hughes.

Botany: Darwin Prize.—D. I. Hughes. *Robert Hooke Prize.*—Jill Shaw.

Chemistry: C. K. Ingold Prizes.—(1) R. B. Foster. (2) G. P. Harper. (3) D. C. Andrews.

Geology: Chubb Prize.—P. J. Baker.

Mathematics: Filon Prize.—G. R. Burton and Pamela W. Y. Fung, prize equally divided. *Hill Prize.*—P. R. H. Hardy. *Jeffery Prize.*—P. J. Swan.

Physics: William Bragg Prize.—P. White. *Oliver Lodge Prize.*—M. W. Bibby and P. A. Roberts, prize equally divided. *Wood Prize.*—Janet A. Spooner.

Physiology: Foster Prize.—Suzanne-Marie Y. Gardner. *Sanderson Prize.*—A. R. Yamey.

Psychology: McDougall Prize.—P. Fonagy. *Spearman Prize.*—Belinda J. Hyland and Helen B. Tager, prize equally divided.

Statistics: Egon Pearson Prize.—Marion J. MacDonald and P. A. Martin, prize equally divided. *Karl Pearson Prize.*—G. A. Bancroft.

Zoology: (1) J. P. Tite. (2) Angela Towle.

Chemical Engineering: Goldsmid Prizes.—J. J. Caldwell, S. H. Javeri and A. P. Yoganathan, two prizes equally divided.

Civil and Municipal Engineering: Goldsmid Prizes.—(1) R. D. Allen. (2) E. H. Greenhalf.

Electronic and Electrical Engineering: Goldsmid Prizes.—(1) D. C. Chalmers. (2) D. N. Pimm.

Mechanical Engineering: Goldsmid Prizes.—(1) J. F. P. Eddison. (2) D. N. Pattison.

UNIVERSITY AWARDS

UNIVERSITY POSTGRADUATE (FINALS) STUDENTSHIPS

Classics: Caroline C. Pickett. (Moiety of Arthur Platt Studentship). *English:* Gillian M. Dunphy, K. D. Elam. (George Smith Studentship). *Mechanical Engineering:* Kok Swee Sieh. *Philosophy:* Freya Mathews.

UNIVERSITY POSTGRADUATE STUDENTSHIPS

French: Felicity A. Hill, D. Macey. *Philosophy:* W. L. Marshall.

APPENDIX XIII

BENEFACTIONS, DONATIONS, RESEARCH GRANTS AND CONTRACTS

The College Committee makes grateful acknowledgment of the following:

AGRICULTURAL RESEARCH COUNCIL

£2,201 for research in the Department of Botany and Microbiology on the intergeneric hybridisation between *Fragaria* and *Potentilla*.

AMERICAN CANCER SOCIETY INCORPORATED

$1,000 for a fellowship supply allowance in the Department of Zoology and Comparative Anatomy.

ANONYMOUS DONOR

A gift of £40,000 for the establishment of the Lorne Fund, to be administered by the College as Trustee, for the advancement of the education, training or careers of professional artists, by the provision of scholarships to be awarded to candidates selected in alternate years by the Slade Professor of Fine Art at University College and the Principal of the Chelsea School of Art.

THE ANSTRUTHER 1966 CANADA TRUST

£41 for the Library for preliminary expenses in connection with a scheme to enable extensive work to be carried out on the sorting and indexing of the Chadwick papers.

ARCHITECTS' REGISTRATION COUNCIL OF THE UNITED KINGDOM

£6,550 for the School of Environmental Studies for a follow-up study of ex-students of architecture in the British Isles and an examination of their employment patterns.

THE ARTHRITIS AND RHEUMATISM COUNCIL

£4,736 for research in the Department of Pharmacology on the chemical structure of LNPF and permeability assays.

ARTS COUNCIL OF GREAT BRITAIN

(1) £600 for the Slade School of Fine Art for the production of a film on the Kinetics exhibition at the Hayward Gallery.

(2) £350 for the Library towards the cost of maintaining the specialist collection of Little Magazines published in this country and overseas.

ASTHMA RESEARCH COUNCIL

£4,500 for the Department of Pharmacology for an investigation of antigens.

BEECHAM GROUP LIMITED

£2,500 for the Department of Chemical Engineering for research related to penicillin amidase.

Beecham Research Laboratories

£1,500 for research in the Department of Pharmacology on the mechanism of passive sensitization in guinea-pig lung.

The British Academy

(1) £6,083 for work in the Department of Greek on unpublished Oxyrhynchus Papyri.

(2) £2,500 for 1971–72 towards the cost of the production of a definitive edition of the works of Jeremy Bentham.

British Epilepsy Association—Epilepsy Research Fund

£2,255 for the Department of Physiology for a computer analysis of the electroencephalogram for the monitoring of drug dosage.

British Heart Foundation

(1) £1,179 for the Department of Physiology for quantitative studies on single vessels in the micro circulation.

(2) £3,500 for an investigation in the Department of Zoology and Comparative Anatomy of lymphocyte-associated antigen.

British Petroleum Company Limited

£702 for postgraduate student expenses in the Department of Geology.

California Foundation for Biochemical Research

$1,500 for a studentship in the Department of Botany and Microbiology.

Cancer Research Campaign

(1) £8,564 for research in the Department of Biochemistry on the effects of aflatoxins and other carcinogens on membrane polysome interactions.

(2) £4,955 and £87 for research in the Department of Pharmacology on tumour immunology.

Calouste Gulbenkian Foundation, Lisbon

£2,177 for the Department of English Language and Literature for a survey of English usage.

Mr G. D. Cast

A gift to the College of nineteen oil paintings and eleven drawings executed by his brother Jesse Dale Cast, a student in the Slade School of Fine Art, 1922–26.

Centre for Environmental Studies

(1) £6,977 for the School of Environmental Studies for a study of the inter-war suburbs.

(2) £1,610 for a study in the Department of Geography of input-output methods in operational planning.

Civil Service Department

£1,625 for the School of Environmental Studies for telecommunications field trials.

Clothing and Allied Products Industry Training Board

£8,627 for research in the Department of Psychology on the recruitment and training of sewing machinists in the clothing industry.

Commonwealth Survey Officers' Conference

A fund of £1,267.93, subscribed in memory of Brigadier Martin Hotine, sometime Director of Surveys at the War Office and subsequently Director of the Directorate of Overseas Survey, was handed over to the College by the Standing Committee of the Commonwealth Survey Officers' Conference, to found the 'Hotine Exhibition', for award each session to the most promising student in the courses for the M.Sc. Degrees in Photogrammetry and Surveying, having regard to performance in the written examination and to financial need.

Council of Engineering Institutions

£1,800 for the Department of Civil and Municipal Engineering in support of a Visiting Professorship under the 1851 Senior Industrial Fellowship Scheme—Mr G. S. Solt appointed.

Department of Education and Science

£1,491 for a study in the School of Environmental Studies of the use of space and facilities in universities.

Department of the Environment

(1) £1,478 for the Department of Civil and Municipal Engineering for the development of wave absorbers for the Hydraulics Research Station.

(2) £2,600 for the School of Environmental Studies for the preparation of a paper for the Economic Commission for Europe Seminar.

(3) £976 for the School of Environmental Studies for a study of the building timetable.

(4) £345 for the Department of Geography for a study of the variability of transport and social provision in the parishes of North Norfolk.

Department of the Environment (Transport and Road Research Laboratory)

£6,397 and £471 for the Department of Civil and Municipal Engineering for research on traffic intensity in urban areas.

Department of Health and Social Security

(1) £3,000 for research in the Department of Anthropology on food as a system of communication.

(2) £14,860 for the Department of Mechanical Engineering for the development of a prototype hydraulically-powered arm.

(3) £3,730 for research in the Department of Mechanical Engineering on pneumatic position control servomechanisms for arm prostheses.

(4) £40 for research in the Department of Mechanical Engineering on the different methods of training blind people in the use of a sona detection device.

(5) £7,250 for the Department of Psychology in support of postgradute studies in the psychology of the handicapped child.

Department of Trade and Industry

(1) £2,302 for research in the Department of Chemical Engineering on particle mixing in gas fluidised beds.

(2) £4,068 for research in the Department of Mechanical Engineering on multiple input control systems for the control of ship motion.

THE DIAMOND CORPORATION

£750 for the Department of Chemistry for research on diamonds.

ESSO EXPLORATION INCORPORATED

£521.56 for the Department of Geology for research work in micropalaeontology.

FAIRFIELD UNIVERSITY, CONNECTICUT

$22,650 for a study in the School of Environmental Studies of the impact of telecommunications innovation.

THE FORD FOUNDATION, U.S.A.

(1) $50,000 for the School of Environmental Studies in support of two posts at senior lecturer/reader level and one teaching research assistantship in the field of development planning.

(2) $2,451.07 for travel and study grants to enable certain participants to attend an international conference on "Ideology and Human Nature", which was organised by the Professor of Philosophy, and held in Nicosia in September 1971.

FRIENDS OF THE LATE DR R. E. BRADBURY

A fund of £224.33, subscribed in memory of Dr R. E. Bradbury, student of the College, 1947–52 and 1954–56, and member of staff of the Department of Anthropology, 1954–56 and 1961–64, was handed over to the College by the appeal committee, to found the 'R. E. Bradbury Memorial Prize', for annual award to a student of the Department of Anthropology.

GENERAL ELECTRIC COMPANY, U.S.A.

£2,000 for research in the School of Environmental Studies on communications systems.

MRS ELSIE H. B. HART

Gifts of a sum of £586.88 and of an annual payment of £75 under seven-year covenant, as further donations to the fund for the award of the 'Hart Prizes' in Photogrammetry and Surveying; and a donation of £5 for the book prize in 1971–72.

HOME OFFICE

£8,400 for the Department of Psychology for a feasibility study of the vocational training of prisoners.

IMMANUEL CHARITABLE FOUNDATION

£250 for the Department of Hebrew and Jewish Studies towards the cost of the publication of a journal.

IMPERIAL CHEMICAL INDUSTRIES (DYESTUFFS DIVISION)

£1,314 for a postgraduate maintenance grant in the Department of Chemistry.

THE INSTITUTION OF CIVIL ENGINEERS

A prize of £10 to be awarded in alternate sessions to a student in the Department of Civil and Municipal Engineering for the best all-round performance in the penultimate or final year course for the B.Sc.(Eng.) Degree, particular weight being given to ability in civil engineering design.

The Institution of Mechanical Engineers

A prize of £10 to be awarded annually to a student in the final year of the B.Sc.(Eng.) Degree course who has distinguished himself in the Mechanical Engineering group of subjects, particular weight being given to project or design work.

International Business Machines (United Kingdom Limited)

(1) Financial support over seven years for the establishment of a Chair of Computer Science in the Department of Statistics and Computer Science.

(2) £1,150 for a fellowship in the Department of Physics.

The Leverhulme Trust Fund

(1) £25,000 for the School of Environmental Studies in support of two lectureships in overseas development planning.

(2) £5,700 for the School of Environmental Studies for a quantitative assessment of visual intrusion and loss of visual amenity, with special reference to urban motorways.

London Transport Executive

£5,443 for the Department of Psychology for an investigation into the training of older adults as guards on the underground railway.

Professor Lord Llewelyn-Davies

A gift of royalties of £93 to the Bartlett School Appeal Fund.

Medical Research Council

(1) £7,661 for a study in the Department of Anatomy and Embryology of the structure and function of coated and plain synaptic vesicles in the CNS.

(2) £1,611 for the Department of Anatomy and Embryology for a project for developing a quantitative method for detecting the presence of aggressive factors in lymphocytes and serum in experimental immune conditions.

(3) £14,922 for research in the Department of Animal Genetics on the pathogenesis of inherited neurological disorders.

(4) £12,095 for research in the Department of Animal Genetics on mammalian genetics.

(5) £2,409 for research in the Department of Anthropology on the amino acid sequence of Tarsuis haemoglobin.

(6) £19 for equipment in the Department of Anthropology for use in connection with research on the reproduction and general behaviour of nocturnal prosimians.

(7) £1,725 for an investigation in the Department of Biochemistry to assess the role of magnesium and calcium ions in the control of glycolisis and gluconeogenesis.

(8) £100 for research in the Department of Biochemistry on the structural and functional relationships of the DNA polymerases of mammalian cells.

(9) £5,202 for the Department of Biophysics for an analysis of the mechanisms regulating the contractile activity of the heart.

(10) £12,333 for a study in the Department of Botany and Microbiology of the physical and functional relationship between bacterial plasmid DNA and the cell membrane.

(11) £6,215 for research in the Department of Botany and Microbiology on the characterisation, location and function of proteins in pollens and their allergenicity to man.

(12) £6,138 for research in the Department of Chemistry on the purification, crystallisation properties, and location of choline acetyltransferase.

(13) £4,151 for research in the Department of Chemistry on the structure and packing of membrane components.

(14) £2,598 for research in the Department of Chemistry on the conformation of molecules affecting nervous systems.

(15) £2,167 for an investigation in the Department of Chemistry of the chemical and antigenic properties of nerve growth factor from different sources.

(16) £313 and £271 for research in the Department of Chemistry on the crystallisation of choline acetyltransferase.

(17) £1,016 for the Department of Mechanical Engineering for an evaluation of the 'Hendon Arm'.

(18) £6,731 for a study in the Department of Pharmacology of a cytopherometer test for specific tumour antigen using clinical material.

(19) £4,740 and £327 for the Department of Pharmacology for an analysis of drug dependence in rats.

(20) £2,167 for research in the Department of Pharmacology on the mediators of delayed hypersensitivity reactions.

(21) £5,451 for research in the Department of Physiology on the energetics of muscular contraction.

(22) £1,500 for a study in the Department of Physiology of the development of the foetal blood brain barrier.

(23) £2,000 for the Department of Psychology for various projects in physiological psychology.

(24) £1,415 for the Department of Zoology and Comparative Anatomy for automated measurement of tissue changes in ageing.

(25) Research training support grants totalling £10,425.

METROPOLITAN WATER BOARD

£5,700 for the Department of Civil and Municipal Engineering for filtration experiments at Kempton Park.

MINISTRY OF DEFENCE

(1) £8,672 for the Department of Biochemistry for biochemical studies on oxygen toxicity.

(2) £12,474 for the Department of Electronic and Electrical Engineering for computer studies of semi-conductor devices.

(3) £2,969 for the Department of Electronic and Electrical Engineering for a feasibility study of acousto-optic display devices.

(4) £5,319 for a study in the Department of Mechanical Engineering of the effect of certain foams on flame initiation and propagation.

(5) £746 for research in the Department of Mechanical Engineering into the dynamic responses of ship structures and systems.

(6) £173 for research in the Department of Mechanical Engineering on the optimum control of three interacting servo systems.

MINISTRY OF DEFENCE (NAVY)

(1) £165 for a study in the Department of Electronic and Electrical Engineering of the locking problems and element interaction problems of an active antenna array.

(2) £91,100 for the Department of Mechanical Engineering in support of courses for Naval Constructor students, 1972-77.

(3) £9,423 and £803 for a study in the Department of Mechanical Engineering of fatigue crack growth under random loading.

(4) £500 for the Department of Mechanical Engineering for a feasibility study of cross-flow fans.

Ministry of Defence (Procurement Executive)

(1) £2,742 and £248 for research in the Department of Electronic and Electrical Engineering on phase shifters for L-band aircraft aerials.

(2) £2,682 for research in the Department of Electronic and Electrical Engineering on whip antennas for vehicles.

(3) £2,123 for the Department of Mechanical Engineering for an assessment of the fragility of equipment and any associated effects on packaging techniques.

Ministry of Education (Northern Ireland)

Research training support grant of £51.

National Deaf Children's Society

£950 for research in the Department of Phonetics and Linguistics on teaching intonation and rhythm to deaf children.

National Fund for Research into Crippling Diseases

£126 for the Department of Human Genetics and Biometry for an analysis of data on births with congenital malformation, still births, and neonatal deaths.

National Research Development Corporation

£1,760 for research in the Department of Chemistry on the isolation of peptides from bee venom.

Natural Environment Research Council

(1) £61 for research in the Department of Civil and Municipal Engineering on the strength and stress-strain behaviour of layered soils.

(2) £1,000 for the Department of Geology for geophysical investigations of the Continental Shelf west of Scotland.

(3) £4,715 and £102 for the Department of Zoology and Comparative Anatomy for a study of survival as a function of metabolism and social status in the Skomer Vole.

(4) £217 for an investigation in the Department of Zoology and Comparative Anatomy of the origin and early history of the Mammalia.

(5) Research training support grants totalling £3,777.

North Atlantic Treaty Organisation

(1) $1,000 for studies in the Department of Chemistry of d-8 complexes.

(2) £483 for research in the Department of Chemistry on the synthesis and structure of chelate metal-olefin complexes of transition metals.

The Nuffield Foundation

(1) £1,490 for the Department of Anthropology for a study of the monetary institutions of a small Indian community in Central America.

(2) £1,300 and £115 for the Department of Political Economy for a study of the settlement patterns of rural areas and small towns in Great Britain.

THE OVERSEAS DEVELOPMENT ADMINISTRATION

£7,500 for the School of Environmental Studies in support of a special programme in development planning.

THE PLESSEY COMPANY LIMITED

£1,620 for the assistance of postgraduate students taking the M.Sc. course in Marine Earth Science in the Department of Geology.

POLAK'S FRUTAL WORKS

£715 for research in the Department of Chemistry on organics of synthesis of large ring compounds.

POST OFFICE CONTRACTS DIVISION

£7,963 for the School of Environmental Studies for a pilot stage of office communications survey.

GEORGE ROWNEY AND COMPANY LIMITED

A gift of £571 for the furtherance of study and teaching in the Slade School of Fine Art. The gift has been used for the institution of the Rowney Bursary Fund.

MR THOMAS H. ROWNEY

A gift of £286 for the assistance of students in the Slade School of Fine Art. The gift has been used for the institution of the Rowney Bursary Fund.

THE JOSEPH ROWNTREE CHARITABLE TRUST

£11,257 in support of two lectureships in International Relations for a period of two years.

JOSEPH ROWNTREE MEMORIAL TRUST

£3,550 for research in the Department of Geography on housing and the mobility of labour.

ROYAL COLLEGE OF PHYSICIANS

£7,812 for research in the Department of Statistics and Computer Science on statistical analyses.

ROYAL INSTITUTE OF BRITISH ARCHITECTS

(1) £2,773 for the School of Environmental Studies for a study of the appraisal by their occupants of private dwellings, and of design alternatives.

(2) £1,050 for a study in the School of Environmental Studies of the topology of the built environment.

THE ROYAL SOCIETY

(1) £244.50 for the Department of Biophysics for the collection of electric organs from torpedo fish.

(2) £743 for the Department of Zoology and Comparative Anatomy towards the cost of a fume cupboard.

THE ROBERT AND LISA SAINSBURY CHARITABLE FUND

£2,500, £2,000 and £500 for the Slade School of Fine Art for the benefit of young sculptors.

SCIENCE RESEARCH COUNCIL

(1) £22,797 for research in the Department of Anatomy and Embryology on the activity of hippocampal units during spatial orientational and exploratory behaviour.

(2) £3,544 for research in the Department of Anatomy and Embryology on the organisation of the visual cortical areas in the rhesus monkey.

(3) £297 for the Department of Anatomy and Embryology for scanning electron microscopy of biological tissues.

(4) £475 for the Department of Astronomy for expenses in connection with attendance at Imaging Team meeting at Pasadena.

(5) £3,908 for research in the Department of Biochemistry on the regulation of nitrogen metabolism during osmotic adaptation in aquatic animals.

(6) £871 for the Department of Biophysics for an investigation of the synaptic function in the giant synapsis of the squid.

(7) £5,908 for research in the Department of Botany and Microbiology on the cytochemical and ultra-structural features of plant spermatogenesis.

(8) £4,236 for a study in the Department of Botany and Microbiology of the reactivity of drugs with mitochondria.

(9) £30,691 and £501 for a study in the Department of Chemical Engineering of the kinetic data on high temperature hydrocarbon pyrolysis.

(10) £9,376 for a study in the Department of Chemical Engineering of crystallisation mechanisms.

(11) £1,560 for research in the Department of Chemical Engineering on redox transferring membranes.

(12) £27,865 for the Department of Chemistry for optical electron microscope studies of photochemical processes in organic crystals.

(13) £9,860 and £4,493 for research in the Department of Chemistry on high-resolution molecular electronic spectroscopy and photochemistry.

(14) £7,756 for an investigation in the Department of Chemistry of the structure of the enzyme aspartate aminotransferase.

(15) £5,945 for a study in the Department of Chemistry of steric effects on barriers to rotation about carbon bonds.

(16) £5,500 for the Department of Chemistry for 'other nucleus' NMR studies in inorganic and organic compounds.

(17) £5,153 for a study in the Department of Chemistry of encounter rates in electrophilic aromatic substitution.

(18) £1,877 for a study in the Department of Chemistry of the theory of photo-dimerisation and fluorescence in defect organic solids.

(19) £450 for research in the Department of Chemistry on the transition metal complexes of annulenes and dehydroannulenes.

(20) £7,482 for a study in the Department of Chemistry and the Department of Physiology of the effects of nerve growth factor on sympathetic ganglia *in vivo*.

(21) £22,671 for the Department of Civil and Municipal Engineering for a study of the design of urban transport networks.

(22) £21,099 for a study in the Department of Civil and Municipal Engineering of the relationship between the speed of traffic and its amount.

(23) £13,098 for the Department of Civil and Municipal Engineering for shearing a soil sample with controlled changes in applied stress axes.

(24) £9,708 for the Department of Civil and Municipal Engineering for an investigation of coupled modes of buckling.

(25) £2,780 for a study in the Department of Civil and Municipal Engineering of the rapid estimation of urban transport needs.

(26) £1,000 for the Department of Civil and Municipal Engineering for the formulation of a theory of road accident frequency.

(27) £500 for a study in the Department of Civil and Municipal Engineering of particle packing related to the stress-strain behaviour of granular soils.

(28) £20,676 for a study in the Department of Electronic and Electrical Engineering of integrated optical waveguides and waveguide components.

(29) £3,906 for a study in the Department of Electronic and Electrical Engineering of acoustic holography in solids.

(30) £2,765 for the Department of Electronic and Electrical Engineering for a design of acoustic radar for the remote sounding of the lower atmosphere.

(31) £1,770 for a study in the Department of Electronic and Electrical Engineering of the effect of atmospheric fluctuations on microwave radio communication at 36 GHz.

(32) £16,560 for the Department of Electronic and Electrical Engineering and King's College London for an investigation of non-linear acoustic surface wave signal processing.

(33) £18,897 for research in the School of Environmental Studies on functional obsolescence in the built environment.

(34) £5,029 for a study in the Department of Human Genetics and Biometry of the role of sex chromosomes in embryonic growth.

(35) £8,566 for an investigation in the Department of Mathematics of numerical fluid mechanics.

(36) £8,049 for the Department of Phonetics and Linguistics for experiments in speech processing and reaction time.

(37) £41,287 for a study in the Department of Physics of neutrino interactions in the Gargamelle Bubble Chamber.

(38) £33,251 for the Department of Physics for observing trials and second phase development of UCL image photon counting system.

(39) £28,000 for a study in the Department of Physics of atmospheric structure and dynamics.

(40) £19,328 for the Department of Physics for high resolution ultraviolet interstellar and stellar observations from a balloon platform.

(41) £10,000 for the Department of Physics, under an agreement with the Rutherford High Energy Laboratory, for research on coherent scattering from 4He at high energies.

(42) £5,922 for an investigation in the Department of Physics of parallel processing networks.

(43) £5,558 for an investigation in the Department of Physics of optical vehicle classification.

(44) £5,133 for a study in the Department of Physics of the structures of the ionized hydrogen regions.

(45) £4,783 for the Department of Physics for the development of balloon-borne telescopes for infra-red observations.

(46) £4,336 for a study in the Department of Physics of the convergence of atomic wave function expansions.

(47) £3,947 for the Department of Physics for curve-crossing studies using differential scattering with capture.

(48) £3,120 for a study in the Department of Physics of atomic data required for astrophysics research.

(49) £2,450 for the Department of Physics for the Gargamelle Film Analysis Unit.

(50) £2,242 and £102 for a study in the Department of Physics of medium resolution spectra of NGC3034 and 4151 in the range 8–13 microns.

(51) £708 for research in the Department of Physics on atmospheric structure.

(52) £209 for research in the Department of Physics on the development of infra-red detectors.

(53) £8,000 for a study in the Department of Statistics and Computer Science of Bayesian forecasting methods and their use in decision making.

(54) £215 for research in the Department of Zoology and Comparative Anatomy on the embryology of anuran amphibia.

(55) Research training support grants totalling £29,975.

LT-COL. R. SEIFERT

A gift by covenant of £1,946 to the Bartlett School Appeal Fund.

SHELL INTERNATIONAL PETROLEUM COMPANY LIMITED

£6,000 per annum for seven years for the Department of Mechanical Engineering in support of a Lectureship in Ocean Engineering.

SOCIAL SCIENCE RESEARCH COUNCIL

(1) £3,996 for a study in the Department of Anthropology of the genetical and sociological aspects of marriage movement in modern Britain.

(2) £16,101 for a study in the Department of Civil and Municipal Engineering of time and other benefits from expenditure on different forms of passenger transport.

(3) £350 for a study in the School of Environmental Studies of adaptation to distracting stimuli within the urban environment.

(4) £175 for a study in the School of Environmental Studies of changes in students' performance on personality tests during university courses.

(5) £2,611 for the Department of History and Emmanuel College, Cambridge, for a study of the development of the steamship, 1813–1870.

(6) £5,560 for a study in the Department of Phonetics and Linguistics of the cognitive processes in simultaneous translation.

(7) £2,628 and £59 for a study in the Department of Psychology of the psychological factors in hypothermia of the elderly.

(8) Research training support grants totalling £535.

SIR JULES THORN CHARITABLE TRUST

£22,400 for the Department of Human Genetics and Biometry and University College Hospital Medical School in support of a lectureship in Genetics.

UNITED KINGDOM ATOMIC ENERGY AUTHORITY

£3,600 for a fellowship in the Department of Chemistry.

UNITED STATES AIR FORCE

$5,000 for the Department of Physics for the determination of air density, temperature and winds at high altitudes.

UNITED STATES PUBLIC HEALTH SERVICE

(1) $8,550 for the Department of Biochemistry for computer simulation of metabolic control.

(2) $17,473 for research in the Departments of Pharmacology and Psychology, and in the Department of Psychology, Birkbeck College, on the psychopharmacology of learning, perception, and skill.

(3) $1,000 for a fellowship supply allowance in the Department of Physiology.

(4) $1,000 for a fellowship supply allowance in the Department of Zoology and Comparative Anatomy.

WELLCOME FOUNDATION LIMITED

(1) £2,794 for a Wellcome Studentship in the Department of Pharmacology.

(2) £2,850 for a Wellcome Studentship in the Department of Zoology and Comparative Anatomy.

THE WELLCOME TRUST

(1) £3,450 for an investigation in the Department of Anatomy and Embryology of synaptic structure by electron microscopy and fluorescence microscopy.

(2) £3,255 for a research fellowship in the Department of Anatomy and Embryology.

(3) £578 in support of Dr K. E. Webster's research in the Department of Anatomy and Embryology.

(4) £435 for the Sub-Department of the History of Medicine in the Department of Anatomy and Embryology.

(5) £1,850 for a research fellowship in the Sub-Department of the History of Medicine in the Department of Anatomy and Embryology.

(6) £750 and £860 for a research training scholarship in the Sub-Department of the History of Medicine in the Department of Anatomy and Embryology.

(7) £447 for research in the Department of Animal Genetics on the role of antiteratogens in congenital deformities.

(8) £145 for a research training scholarship in the Department of Animal Genetics.

(9) £860, £860, and £750 for research training scholarships in the Department of Biochemistry.

(10) £1,538, £1,295, and £860 for research training scholarships in the Department of Biophysics.

(11) £150 for a research training scholarship in the Department of Botany and Microbiology.

(12) £11,904 for research in the Department of Chemistry on the structure and packing of membrane components.

(13) £1,065 for a research training scholarship in the Department of Human Genetics and Biometry.

(14) £1,200, £845, and £678 for the Department of Pharmacology in support of research on drug allergy.

(15) £156 for research in the Department of Physiology on the effect of drug mixtures on the behaviour of mice.

WHITEHALL FOUNDATION INCORPORATED

$22,000 for a study in the Department of Chemistry of the substances promoting growth and differentiation in animal cells.

THE HELEN HAY WHITNEY FOUNDATION, INCORPORATED

£400 for fellowship expenses in the Department of Biophysics.

THE RALPH YABLON COMPANY LIMITED

£500 for the Library towards the maintenance and expansion of the Brodie Library.

The following grant announced in the Report for 1970–71 has been transferred to the University of Southampton during the year 1971–72:

SCIENCE RESEARCH COUNCIL

Grant of £5,606 for the Department of Chemistry for research on the application of nuclear quadrupole resonance to the study of bonding in Pt and Pd complexes.

BENEFACTIONS AND DONATIONS TO THE LIBRARY

GROUP CAPTAIN G. M. KNOCKER

A gift of some 80 books and offprints, mainly in the field of Anglo-Saxon archaeology, presented by his widow.

MRS SONIA ORWELL

A gift of the recently discovered typescript of the introduction Orwell wrote for the first edition of *Animal Farm* and which was not published.

MRS MARION RAWSON

A gift of ten letters by John Joseph Sylvester, Professor of Natural Philosophy, 1837–41; eight to his niece, Contessa Edith Gigliucci, and two to her husband, Count Mario Gigliucci.

MR J. K. SHAH

A further gift of 60 books and pamphlets on a variety of subjects.

LORD STRANG

A gift of a collection of books on post-war politics and history, together with personal letters and documents.

MR DAVID THOMAS

A gift of a collection of books, mainly on typography, three of them written by himself.

MR JOHN TOWNSEND

A gift of 90 books for the Celtic collection.

APPENDIX XIV

COLLEGE ACCOUNTS 1971–72

The Balance Sheet and the Income and Expenditure Account for the year will be found on pages 149–51.

BALANCE SHEET

LIABILITIES

The Capital Account increased by £229,840. This increase is mainly attributable to the purchase of the Endsleigh Hotel site, offset by the disposal of Flaxman House.

ASSETS

Freehold and Leasehold Land and Buildings decreased by £105,055, reflecting the disposal of Flaxman House and the acquisition of the freehold of the Nevern Square houses.

TRUST FUNDS

The College holds endowments in the form of 206 separate trust funds with a total value of £1,587,401. The funds yield a total annual income of £90,000.

INCOME AND EXPENDITURE

The income for the year exceeded expenditure by £94,312, after charging £35,000 which was regarded as an allocation from the accumulated surplus. The balance carried forward on the Income and Expenditure Account was £181,902 (£87,590 in 1970–71).

Income exceeded that for 1970–71 by £889,094, of which £724,734 represented increased grants from the Court of the University. Fees increased by £47,690. Grants for research were £158,889 higher than in the previous year. Selective Employment Tax (wholly recovered) decreased by £113,357.

Expenditure, including allocations to and from Reserves, was £771,513 more than in 1970–71. An additional £809,441 was spent on academic departments. Maintenance of Premises cost an additional £111,659, miscellaneous expenditure, including Selective Employment Tax, decreased by £94,949 net, and allocations from the accumulated surplus decreased by £45,000.

Income and expenditure under the main classifications in 1971–72 as compared with 1970–71 and with the corresponding year of the previous quinquennium, are shown in the following table.

EXPENDITURE	1966–67 £	%	1970–71 £	%	1971–72 £	%
Salaries and Pensions of Teaching Staff..	1,963,036	38·3	2,638,547	32·7	3,055,868	34·5
Departmental Expenses, including Library	1,144,166	22·4	1,767,862	21·9	2,039,714	23·1
Research Grants ..	823,119	16·1	1,527,151	18·9	1,686,040	19·1
Maintenance of Premises	651,359	12·7	1,202,894	14·9	1,166,884	13·2
Administration ..	294,648	5·8	500,622	6·2	551,275	6·2
Selective Employment Tax	108,940	2·1	248,995	3·1	135,638	1·5
Other	134,722	2·6	191,161	2·3	213,326	2·4
	£5,119,990	100·0	£8,077,232	100·0	£8,848,745	100·0
INCOME						
Endowments ..	71,086	1·4	79,493	1·0	99,917	1·1
Grants	3,647,827	71·3	5,528,564	68·6	6,253,298	69·9
Donations	78,522	1·5	129,994	1·6	202,992	2·3
Fees	280,772	5·5	402,888	5·0	450,578	5·0
Grants for Research	823,119	16·1	1,527,151	19·0	1,686,040	18·9
Research Training Support Grants ..	39,690	0·8	40,990	0·5	44,763	0·5
Selective Employment Tax	108,940	2·1	248,995	3·1	135,638	1·5
Other	65,986	1·3	95,888	1·2	69,831	0·8
	£5,115,942	100·0	£8,053,963	100·0	£8,943,057	100·0

EXTRA-BUDGETARY ACTIVITIES

The College administers the finances of many research projects supported from outside sources. 450 were being pursued actively at 31 July 1972. Income and expenditure rose from £1,527,151 in 1970–71 to £1,686,040 in 1971–72.

CAPITAL GRANTS

Capital grants made during the year 1971–72 were as follows:	£
Conversion of former Genetics Accommodation for Architecture Students and Department of Statistics and Computer Science	
Professional fees	329
Improvements to Staff Refectory:	
Building work	7,992
Furniture	4,761
Adaptations in Department of Physiology: Professional fees ..	37

Conversion of Weldon Theatre for teaching purposes: Furniture ..	3,282
Alterations in Old Chemistry Buildings: Furniture	21,674
Alterations in Main Library: Building work	3,088
Acquisition of Endsleigh Hotel	315,000
Adaptations in Staff Refectory and Common Room:	
Building work	20,763
Furniture	2,058
Improvements to Laboratories in Department of Chemistry:	
Building work	8,243
Furniture	2,891
Solvent Store, 24 Gordon Square, and Gas Cylinder liquid Nitrogen Store adjacent to Zoology Building and Foster Court:	
Building work	4,289
Furniture	581
Extension to Henry Morley Building:	
Building work	8,269
Fees	17
Furniture	1,120
	£404,394

SCHOLARSHIPS AND PRIZES

Expenditure amounted to £35,006. Awards were made as under:

	Undergraduate	*Postgraduate*
	£	£
From Endowments	5,777	8,002
„ Donations	—	15,001
„ General Income	5,135	1,091
	£10,912	£24,094

UNIVERSITY COLLEGE LONDON
BALANCE SHEET AS AT 31 JULY 1972

31–7–71 £		£
15,101,238	CAPITAL ACCOUNT	15,331,078
27,072	REDEMPTION FUND	28,748
302,605	LOANS	48,198
15,430,915		15,408,024
1,252,054	RESERVES AND AMOUNTS SET ASIDE	1,586,523
705,874	EARMARKED FUNDS	766,930
580,775	CURRENT LIABILITIES	628,020
17,969,618		18,389,497
1,347,833	TRUST FUNDS	1,587,410

NOTE

Freehold and Leasehold Land and Buildings

(*a*) Freehold and leasehold land and buildings as stated in the accounts does not include fixtures, furniture and equipment. The cost of these assets is written out of the accounts on purchase or on completion of a Project against the corresponding grants or other monies received which are not therefore included in Capital Account.

(*b*) Freehold land and buildings are stated at valuation made in 1959 on the basis of the then current land values and building costs; additions since are stated at cost or valuation, as estimated by the College authorities.

£19,317,451		£19,976,898

31–7–71 £		£
15,195,020	FREEHOLD LAND AND BUILDINGS—See Note below ..	15,112,670
425,012	LEASEHOLD LAND AND BUILDINGS	402,307
15,620,032		15,514,977
12,773	CAPITAL AND OTHER WORKS IN PROGRESS *less* capital receipt	85,485
570,100	INVESTMENTS .. .. (*Market Value at 31 July 1972, £830,384; 31 July 1971, £594,085*)	762,402
975,845	EXPENDITURE RECOVERABLE FROM FUTURE GRANTS ..	1,016,892
790,868	CURRENT ASSETS	1,009,741
17,969,618		18,389,497
1,347,833	TRUST FUNDS	1,587,401

£19,317,451		£19,976,898

INCOME AND EXPENDITURE ACCOUNT FOR YEAR ENDED 31 JULY 1972

EXPENDITURE

1970–71 £		£	£
	ADMINISTRATION		
378,224	Salaries	429,688	
99,246	Advertising, Printing, Stationery, Postage and Telephone	101,114	
18,435	Other Expenses (including Professional Fees)	20,473	
(495,905)			551,275
	ACADEMIC DEPARTMENTS		
2,606,982	Salaries of Teaching Staff	2,999,329	
850,484	Departmental Wages: Technical Staff	964,498	
203,579	Secretarial Staff	236,060	
413,601	Departmental and Laboratory Maintenance	525,863	
1,527,151	Research Expenditure covered by grants on Research Contracts (contra opposite)	1,686,040	
5,081	Other Expenditure	4,529	
(5,606,878)			6,416,319
	ACADEMIC SERVICES		
126,923	Libraries: Salaries 136,007		
89,165	General Expenditure 101,855		
		237,862	
6,358	Central Photographic Service	7,145	
117	Audio Visual Aids	2,537	
4,004	Radiation Hazards	5,772	
(226,567)			253,316
	MAINTENANCE OF PREMISES		
272,319	Rates	264,390	
12,245	Insurance	17,622	
	Rents and other payments for use of buildings:		
10,906	Halls of Residence 10,906		
50,659	Other Buildings 53,765		
		64,671	
199,927	Heat, Light, Water and Power	214,407	
418,553	Repairs and Maintenance of Buildings including amounts set aside for long-term maintenance	499,617	
93,740	Wages of Porters and Attendants	108,471	
15,589	Other Expenses	16,419	
(1,073,938)			1,185,597
	GENERAL EDUCATIONAL		
1,112	Examinations	1,007	
36,308	Scholarships and Prizes	35,006	
1,205	Public Lectures	1,396	
4,500	Staff Attendance at Conferences	4,500	
1,613	Student Vacation Grants	26,656	
1,500	Miscellaneous	2,362	
(46,238)			70,927

INCOME

1970–71 £		£	£
	ENDOWMENTS		
(79,493)	Income of Trust Funds appropriated for purposes specified by Trust against expenditure included opposite		99,917
	DONATIONS AND SUBSCRIPTIONS: Appropriated for:		
429	Libraries	1,555	
15,134	Scholarships and Bursaries	15,000	
85,051	Salaries and Superannuation	122,172	
29,380	Departmental and Laboratory Maintenance	64,265	
(129,994)			202,992
	GRANTS FROM UNIVERSITY COURT		
(4,832,700)	General		5,502,865
	Earmarked:		
214,907	Academic Salary Revision 1970 Scheme	—	
—	Academic Salary Revision 1971 Scheme	237,113	
116,455	Former Research Councils	116,455	
272,319	Rates	264,390	
2,134	Hayter Committee	739	
80,000	Supplementary Maintenance Grant	84,000	
5,949	Parry	3,836	
4,100	Student Vacation Grants	32,900	
—	Small Group Teaching	11,000	
(695,864)			750,433
40,990	**RESEARCH COUNCIL TRAINING SUPPORT GRANTS**		44,763
402,888	**FEES**		450,578
1,527,151	**GRANTS FOR RESEARCH**, including research contracts (contra opposite)		1,686,040
29,517	**CONTRIBUTIONS FOR SERVICES RENDERED**		24,805
19,729	**COLLEGE PROPERTIES**—Rents received		19,632
	OTHER ITEMS		
10,844	Special Funds Appropriation	14,400	
24,890	Interest on Deposits	5,221	
10,908	Miscellaneous	5,773	
(46,642)			25,394
248,995	**SELECTIVE EMPLOYMENT TAX** (contra opposite)		135,638

	Student Facilities and Amenities		
58,751	Grant to Students Union (including Collegiate Theatre)	54,000	
9,028	Salaries: Wardens of Halls of Residence	11,388	
12,234	Student Health Service	21,352	
2,244	Students' Purposes Fund	1,379	
240	Crabb Robinson Fund	200	
402	Ealing Hall Fund	416	
5,396	Central Admissions Scheme	5,500	
1,808	Miscellaneous	2,516	
7,509	Careers Office	8,487	
4,717	Student Counsellor Service	5,315	
(102,329)			110,553
	Miscellaneous		
31,565	Staff Pensions	56,539	
2,734	Grants from Benevolent Funds	2,569	
9,592	Interest on Overdrafts, etc.	5,906	
17,959	Sundries	12,711	
1,883	Refectory: College Subvention	2,416	
248,995	Selective Employment Tax (contra opposite)	135,638	
—	College Collection	2,000	
(312,728)			217,779
12,656	**Capital Expenditure met from Income**		—
	Allocation to Reserves at 31 July 1972		
40,000	College Fund		25,000
25,000	Shenley Pavilion		10,000
15,000	Buildings		—
	Revenue Grants:		
52,867	Departmental Maintenance	107,998	
4,874	Library	3,766	
20,807	Repairs and Maintenance of Building	498	
66,294	Petty Works	32,890	
2,487	Student Vacation Grants	8,731	
(147,329)			153,883
9,575	Former Research Councils (earmarked funds)		—
—	Small Group Teaching (earmarked funds)		11,000
			9,005,649
—	**Excess of Income over Expenditure for the Year**		94,312
£8,114,143			£9,099,961
23,269	*Excess of Expenditure over Income for the year*		—
87,590	Balance 31 July 1972, carried to Reserve		181,902
£110,859			£181,902

	Allocation from Reserves at 1 August 1971		
	Revenue Grants:		
(7,757)	Departmental Maintenance	52,867	
(1,925)	Library General Expenditure	4,874	
19,953	Repairs and Maintenance	20,807	
18,192	Petty Works	66,294	
—	Student Vacation Grants	2,487	
			147,329
8,448	Former Research Councils Grant		9,575
8,090,874			9,099,961
23,269	*Excess of Expenditure over Income for the year*		—
£8,114,143			£9,099,961
110,859	Balance as at 1 August 1971		87,590
—	Excess of Income over Expenditure for the year, after allocation (net) to reserves of £42,979		94,312
£110,859			£181,902

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UNIVERSITY COLLEGE LONDON